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General Index
of the
Reports of the Bureau of Mines
Ontario
Volumes I to XVI

(1891-1907)

Compiled by Frank J. Nicolas.

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INTRODUCTORY LETTER

To the Honourable F. COCHRANE,
Minister of Lands, Forests and Mines.

SIR,—The need for a consolidated or General Index of the Reports of the Bureau of Mines has been apparent for some time, and is being more and more felt as the reports increase in number. The Bureau's annual volumes, beginning with its establishment in 1891, have chronicled the progress of the mining industry in Ontario; have recorded the discovery and development of the mineral fields which have successively claimed attention; have embodied the results obtained by competent investigators into the geology and mineralogy of the newer and less-known portions of the Province, and have, from year to year, endeavoured to correlate the mineral arts of Ontario with the steady advances everywhere being made in knowledge and in practice.

It has been the aim of the Bureau to carry on its work in such a way as to fulfil the object for which it was created, which, in the language of the Statute of 1891,* is "to aid in promoting the mining interests of the Province."

Ontario
Necessarily, the methods adopted by the Bureau to this end have been both varied and practical in their nature. Working out the geology and defining the limits of mineral-bearing districts; ascertaining the extent and characteristics of the formations found to carry ores or mineral substances of any useful kind, and describing them so as to enable men unskilled in technical terms, as well as trained geologists, to recognize them in the field; collecting statistics of output and value of the mineral production; investigating problems of treatment and the possibility of utilizing neglected or waste materials; these and similar means have been employed as occasion called for, in the hope of obtaining results that would subserve the mineral industries of the Province and be of use to the prospector, the miner, and the investor. But no hard and fast line can be drawn between the "practical" and the "scientific." The practical is but the scientific put into use, and it often happens that knowledge won for its own sake, without hope or expectation of reward, and which does not appear to have any immediate economic bearing, proves sooner or later to be intrinsically utilitarian.

Accordingly, the Bureau has believed it advisable not to neglect certain of its functions, which may perhaps be regarded as less severely practical than those already mentioned. The geology of a great part of Ontario, for instance, is of pre-Cambrian age. Fossiliferous evidence being absent, and lithological characteristics often of uncertain interpretation, the determination and classification of the various formations and the ascertaining of their relationships to one another present many difficulties. Yet the successful decipherment of the geological record may shed much light upon questions arising in the actual exploitation of mineral deposits, and may provide or suggest a solution of problems often perplexing to the mining engineer. An instance in point is afforded by the Cobalt mining district. The interpretation of the geological phenomena of that region by Professor W. G. Miller, the Provincial Geologist, and his assistant, Mr. Cyril W. Knight, during the short period of the field season of 1904, involving, as it did, a revision of the work and conclusions of previous observers in districts containing the same rocks, provided a basis for working the deposits of that unique field which has proven of the utmost service in actual

*54 Vict., chap. 8, sec. 9.

practice. Nor is it upon such occasions only that geology comes to the aid of industry. It has happened more than once that a geologist, intent only upon observing and correlating the rock formations of the district under his examination, and paying little or no regard to economic minerals or their indications, has produced a report and map which later have served as an invaluable guide to prospectors in the same field, upon valuable minerals being discovered therein.

"Knowledge," says Dr. Johnson, "is of two kinds. We know a subject ourselves, or we know where we can find information upon it." The reports of the Bureau, containing, as they do, a fairly complete record of the Province's mineral industry since they began to be published, as well as a large amount of information concerning the geology and mineral resources of the Province, are naturally in constant demand by those who are interested in particular minerals, deposits, or districts, in the possible and actual resources of the Province or any part of it, in the origin and progress of any branch of the mining industry, or in any other of the thousand and one features with which the reports must necessarily deal. To know where such information can be obtained when wanted is the really important thing, for no one memory can be trusted to contain and reproduce correctly such a mass of detail.

The General Index submitted herewith covers the Report of the Royal Commission on the Mineral Resources of Ontario, published in 1890, the first sixteen annual Reports of the Bureau of Mines, beginning with 1891 and ending with 1907, and several bulletins on special topics published by the Bureau at various times. The Report of the Royal Commission, though published before the Bureau of Mines was established, naturally claims a place in the Index, since it comprehends most of the information of a similar character available at the time it was printed, as well as much valuable historical data. It was upon the recommendation of the Commission that the Bureau was created.

From the First up to and including the Seventh of the Bureau's reports, namely, from 1891 to 1897, the volumes bear on the title page the year to which the Report particularly applies, and for which the statistics of output, etc., are given. A change was made in 1898 which caused the reports to bear the year in which they were actually printed. The Report for 1897 has "1898" on the title-page, but "1897" on the cover of the cloth-bound copies. The next, or Eighth Report, being for the year 1898, is marked "1889" both on title-page and cover, and this practice has been followed since that time. The change has led to some confusion in referring to the reports, and in citing them it is better to do so by the number of the volume than by the year. Thus the Report carrying on the cover the date "1896" is the Sixth Report, but the volume with the date "1904" is the Thirteenth, not the Fourteenth. Each volume is provided with an Index as well as a Table of Contents, and in this way the possessor of a set of the Bureau's Reports is able, by searching, to ascertain what of interest or value they contain on any given mineral, locality, or topic. Such information may be fragmentary and incomplete, or it may be full and definite, exactly what the inquirer is looking for; or it may give some clue or hint by means of which further and more complete data may be obtained from other sources. But the sixteen indexes to the sixteen Reports necessitate sixteen separate searches in order to locate everything that may be in all the Reports on any given subject, and time is money in this busy age. All the references to the subject in the whole sixteen volumes are now brought together in the General Index, and in one search instead of sixteen the inquirer can complete his quest.

Nor are convenience and the saving of time the only advantages which the General Index possesses over the indexes to the individual volumes. The separate indexes are not the work of one hand, nor are they compiled on a common plan. Hence they differ in perspective and detail, and to some extent are of unequal value. To be able to make a good index of a volume dealing in technical terms and with special branches of knowledge, presumes an extensive and accurate acquaintance, both with the

terminology and the subject matter of the volume. If this is absent the sense of proportion is wanting, important matters are apt to be slighted and trifling ones given too much space. The General Index, being the work of one man only, and being compiled, not from the indexes of the separate volumes, but from the text of the Reports themselves, is uniform in plan throughout, and is made with an adequate knowledge of geology, mineralogy, palæontology, metallurgy, mining and the other sciences and subjects which form the bulk of the matter contained in the several Reports. In some measure it is more than an index; it is a summary of the information which the Reports comprise, and will, it is hoped, by making the results obtained by the Bureau more accessible, render them more useful.

It will probably be found that the Index contains mistakes. The reports themselves are not free from mistakes. Errors creep in through defects of memory, manuscript and proof-reading. Statements accepted in good faith at second-hand, when traced to their original source, are found to have been incorrectly quoted or condensed, and errors of fact occasionally occur for which reasonable explanation is wanting. Even broken or imperfect type or incorrect spelling may lead to inaccuracy of statement. Machine-set type is prolific of inaccuracies, since the correction of one printer's error, especially if the number of lines be increased or diminished, may necessitate the re-setting of a whole paragraph, in which fresh errors may be made, requiring fresh corrections.

The Bureau's Reports have one and all been prepared, edited and proof-read, with much care, and the number of errors, small and great, is probably not in excess of what would be found in any other sixteen volumes of similar character. Wherever possible, errors in orthography or nomenclature have been corrected in the Index. If mistakes are detected in the Index itself, the Bureau will be glad to be notified of them, so that they may be rectified in any subsequent edition.

The earlier volumes of the Bureau are entirely out of print, and indeed this is the case with many of the later volumes as well. The only report of which any considerable number of copies remains on hand is the Tenth, printed in 1901. An extra edition was published for distribution at the Pan-American Exposition, held at Buffalo, N.Y., in that year, of which some hundreds are still left.

The Bureau has from the beginning supplied its Reports to a considerable number of public and educational institutions, such as universities, technical colleges, engineering societies, etc., not only in Canada, but also in the United States and Great Britain, so that full sets of its volumes may be consulted in many, if not all, of the leading cities and centres of the mining industry in these countries. To all such copies of the General Index will be sent. It is no longer possible to supply full, or even reasonably complete sets of the reports, but the Bureau will be glad to fill up gaps in public and private libraries to the extent of its ability.

Owing to the fact of the earlier volumes being difficult to procure, the Index has been made more complete than would otherwise have been deemed necessary, in the hope that the information supplied may, in many cases, be a useful substitute for that contained in the volumes themselves.


The edition of the General Index is limited to one thousand copies, all bound in linen cloth.

It only remains to say that the author of the Index, Mr. Frank J. Nicolas, of Ottawa, has performed his task with rare assiduity, diligence and success. His qualifications for the work have proven all that could be desired.

Your obedient servant,

THOS. W. GIBSON,
Deputy Minister of Mines.

Office of the Bureau of Mines,
Toronto, 26 January, 1909.



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CONTENTS

OF THE

REPORTS OF THE BUREAU OF MINES

Volumes I to XVI (1891-1907)

Vol. I, 1891

	PAGE.
Letter of Transmission. By Archibald Blue	1
Report of the Bureau of Mines. By Archibald Blue	3-48
Artesian Wells. By Thos. W. Gibson	49-62
The Laurentian and Huronian Systems north of Lake Huron. By Dr. Robert Bell	63-94
Structural Materials. By Archibald Blue	95-114
Natural Gas. By Archibald Blue	115-164
The Minerals of Ontario. By Archibald Blue	165-179
Peat, Its Use and Value for Fuel. By Thos. W. Gibson	180-211
Technical Instruction. By Thos. W. Gibson	212-217
Alexander Murray, F.G.S., F.R.S.C., C.M.G. By Robert Bell	218-222
Report of the Inspector of Mines. By A. Slaght	223-247

Vol. II, 1892

Letter of Transmission. By Archibald Blue	3
Report of the Bureau of Mines. By Archibald Blue	5-12
Iron-making in Ontario. By Archibald Blue	13-30
The Iron Ores of Ontario. By Archibald Blue	31-82
Treating Iron Ores and Metallic Iron. By Archibald Blue	83-96
Facts and Opinions on the Iron Industry. By Archibald Blue	97-122
Locations for Pig Iron Production. By John Birkinbine	123-128
Nickel and Copper. By Archibald Blue	129-148
The Metallurgy of Nickel (Translation). By Mons. David Levat	149-162
Constitution of Nickelferous Pyrrhotite. By Dr. Stephen H. Emmens.....	163-166
Some New Nickel Minerals. By Dr. Stephen H. Emmens	167-170
A Pioneer's Mining Experiences on Lake Superior and Lake Huron. By Walter William Palmer	171-178
New Sources of Platinum. By Dr. Stephen H. Emmens	179-180
Lithographic Stone. By Dr. C. W. Volney	181-184
Ontario's Minerals at the World's Fair. By Dr. A. P. Coleman	185-194
The Utilization of Peat:—	
The Peat Industry in Canada. By R. W. Ells	195-202
Peat as a Fuel. By Thomas W. Gibson	203-210
Peat in Europe To-Day. By Thomas W. Gibson	211-220
The Mining Laws of Ontario. By Archibald Blue	221-229
Report of The Inspector of Mines. By A. Slaght	231-254
Special Report on the Accident at the Blezard Mine. By A. Slaght	255-257

Vol. III, 1893

Letter of Transmission. By Archibald Blue	3-4
Report of the Bureau of Mines. By Archibald Blue	5-10
The Gold Fields of Ontario. By Archibald Blue	11-61
Copper at Point Mamainse. By Archibald Blue	62-88
Actinolite, Asbestos and Talc. By Archibald Blue	89-102
Vitrified Brick for Street Pavements. By Thos. W. Gibson	103-132
Rocks and Building Stone. By Dr. A. P. Coleman	133-136

Lithographic Stone. By Archibald Blue	137-138
Moss Litter. By Edward Jack	139-144
Iron Trade of the United States. By Archibald Blue	145-146
Nickel Steel for Armor. By Archibald Blue	147-163
Diamond Drills. By Archibald Blue	164-166
Mining Accidents. By Thos. W. Gibson	167-177
Kingston School of Mining. By Archibald Blue	178-180
Report of the Inspector of Mines. By A. Slaght	181-199

Vol. IV, 1894

Letter of Transmission. By Archibald Blue	3-5
General Introduction. By Archibald Blue	7-34
Gold in Ontario: Its Associated Rocks and Minerals. By Dr. A. P. Coleman.	35-100
The Hinterland of Ontario. By Thos. W. Gibson	101-138
Calcium Carbide and Acetylene Gas. Introduction by Archibald Blue	139-141
The Commercial Synthesis of Illuminating Hydro-Carbons. By Prof. Vivian B. Lewes	142-151
The Carbides and Acetylene Commercially Considered. By T. L. Willson and J. Suckert	152-166
Diamond Drill Explorations. By Archibald Blue	167-176
Nickel and Its Uses. Introduction by Archibald Blue	177-181
Nickel and Nickel Steel. By Francis L. Sperry	182-194
Nickel Steel: Its Spécial Value for Armor. By Capt. W. H. Jaques	194-198
Mining Accidents. By Thos. W. Gibson	199-215
Summer Mining Schools. By Archibald Blue	216-222
Fifth Report of the Inspector of Mines. By A. Slaght	223-253
Maps Accompanying the Report:	
(1) Map of Southeastern Part of Rainy River District exhibiting the coun- try in the vicinity of Rainy Lake and River Seine, Scale 2 miles=1 inch.	
(2) Map of Part of Rainy River District, exhibiting the country in the vicinity of Manitou, Eagle and Wabigoon Lakes, Scale 2 miles=1 inch.	

Vol. V, 1895

Letter of Transmission. By Archibald Blue	3-6
General Introduction. By Archibald Blue	7-46
Second Report on the Gold Fields of Western Ontario. By Dr. A. P. Coleman.	47-106
A Tour of Inspection in Northwestern Ontario. By Archibald Blue	107-190
The New Ontario. By Archibald Blue	191-211
The Mining Schools. By Archibald Blue	212-220
Work with the Diamond Drill. By Thos. W. Gibson	221-234
Mining Accidents. By Thos. W. Gibson	235-240
Report on a Section of the Height of Land Region Northeast of Lake Superior. By E. B. Borron	241-258
Sixth Report of the Inspector of Mines. By A. Slaght	259-287

Vol. VI, 1896

Letter of Transmission. By Archibald Blue	3-6
General Introduction. By Archibald Blue	7-70
Third Report on the West Ontario Gold Region. By Dr. A. P. Coleman.....	71-124
The Story of Silver Islet. By Archibald Blue	125-158
Anthraxolite or Anthracitic Carbon. By Dr. Arthur P. Coleman	159-161
Chemical Composition of the Anthraxolite. By W. Hodgson Ellis	162-166
Geology of the Nipissing-Algoma Line. By Edward M. Burwash.....	167-184
Moss Litter. By Thos. W. Gibson	185-192
Mining Schools in Ontario. By Archibald Blue	193-198
Mineral Collections for Summer Mining Schools. Introduction by A. Blue ...	199-209
Part I. Minerals. By W. G. Miller	200-205
Part II. Catalogue of Minerals in the Collection. By Prof. W. L. Goodwin	206-229
Part III. Rocks and Rock Structures. By W. G. Miller	229-236
Some Notes on the Milling of Gold Ores. By John E. Hardman	237-243
Seventh Report of the Inspector of Mines. By A. Slaght	245-281

Maps:

- Map of Nipissing-Algoma line, after page 176.
 Geological and topographical map of the Northern part of the Lake of the Woods and Adjacent Country in the Rainy River District.
 Geological and topographical map of part of the Thunder Bay District from Thunder Bay to the Western side of Moss township, including Dog Lake, Lake Shebandowan and Lac des Mille Lacs.

Vol. VII, 1897

Part I

Prefatory Note. By Archibald Blue	ix-x
Report of the Bureau of Mines: Introduction. By Archibald Blue	1-6
Statistics of Mining Lands and Minerals. By Archibald Blue	7-34
Mines of Northwestern Ontario. By James A. Bow	35-84
Mines of Eastern Ontario. By Aaron Slaght	85-100
Michipicoton Mining Division. By David G. Boyd	101-106

Part II

Fourth Report on the West Ontario Gold Region. By Dr. A. P. Coleman...	109-145
Notes on the Petrology of Ontario. By Dr. A. P. Coleman	145-150
Clastic Huronian Rocks of Western Ontario. By Dr. A. P. Coleman	151-160
Geology of Base and Meridian Lines in Rainy River District. By William Arthur Parks	161-183
Michipicoton Mining Division. By Arthur B. Willmott	184-206

Part III

Economic Geology of Eastern Ontario:	
Corundum and other Minerals. By Willet G. Miller	207-238
Analyses of Corundum and Corundum-bearing Rock. By W. L. Goodwin	238-239
The Concentration of Corundum. By Courtenay De Kalb	240-250
Water Powers of Ontario. By Thomas W. Gibson	251-256
Placer Gold in Vermilion River. By Arthur H. Gracey	256-259
Mining Schools and Classes:	
Kingston School of Mining. By W. L. Goodwin	259-263
School of Practical Science. By J. Watson Bain	263-265
Maps:	
Map of Base and Meridian lines in the Rainy River District, after page 172.	
Map of part of the Michipicoton Mining Division, after page 188.	
Map of parts of the counties of Hastings and Renfrew, after page 206.	
Plan showing gold-bearing sands on Vermilion River, after page 236.	

Vol. VIII, 1899

Part I

Prefatory Note. By A. Blue	ix
Introduction. By A. Blue	5-8
Mineral Industries of Ontario. By A. Blue	9-28
The Condition of Ontario Mines. By Courtenay De Kalb	29-48
Mines of Northwestern Ontario. By James A. Bow	49-99
Michipicoton Mining Division. By David G. Boyd	100-105
Nickel Extraction by the Mond Process. By Sir William Chandler Roberts-Austen	106-120

Part II

Copper Regions of the Upper Lakes. By Dr. A. P. Coleman	121-174
The Nipissing-Algoma Boundary. By William Arthur Parks	175-196
Goulais River to Dalton. By W. A. Charlton, Jr.	197-204
Corundum and other Minerals. By Willet G. Miller	205-240
Corundum in Ontario. By Archibald Blue	241-249
Corundiferous Nepheline Syenite. By Dr. A. P. Coleman	250-253
Michipicoton Iron Range. By A. P. Coleman and A. B. Willmott	254-258
Copper in Parry Sound District. By Dr. A. P. Coleman	259-262

Lower Seine Gold Mines. By James A. Bow	263-274
Notes on Working Mines. By J. Watson Bain	275-279
Summer Mining Classes. By J. Watson Bain and W. L. Goodwin.....	280-283
Provincial Assay Office. By J. Walter Wells	284-289

Maps:

- Map of Mining Claims in vicinity of Wawa Lake, after page 120.
 Map of the Western Part of Michipicoton Mining Division, after page 126.
 Map of Abitibi River and The Nipissing-Algomina Line, after page 200.

Vol. IX, 1900

Introduction. By Archibald Blue	5-8
Mineral Industries of Ontario. By Archibald Blue	9-34
Mines of Northwestern Ontario. By James A. Bow	35-88
Mines of Eastern Ontario. By Courtenay De Kalb	89-111
Michipicoton Mining Division. By D. G. Boyd	112-118
Are there Diamonds in Ontario? By Archibald Blue	119-124
Niven's Base Line 1899. By William A. Parks	125-142
Copper and Iron Regions of Ontario. By Dr. A. P. Coleman	143-191
Minerals of Ontario with Notes. By Willet G. Miller	192-212
A Sketch of the Nickel Industry. By J. W. Bain	213-224
The Mines Law of Ontario. By Archibald Blue	225-229

Maps:

- Map of parts of the Districts of Algoma and Nipissing, showing the Upper Basins of the Moose, Ottawa and Michipicoton Rivers.
 Map of Sudbury Mining District, showing location of Mines and Mining Properties.

Vol. X, 1901

Introductory Letter. By Thos. W. Gibson	5-8
Statistics for 1900. By Thos. W. Gibson	9-60
Metallurgical Industries at Sault Ste. Marie. By Frank N. Speller	61-68
Mines of Northwest Ontario: Part I. By J. A. Bow	69-90
Mines of Northwest Ontario: Part II. By W. E. H. Carter	90-112
Mines of Eastern Ontario. By C. De Kalb	113-136
Michipicoton Mining Division. By D. G. Boyd	137-144
Mining Land Agencies. By Thos. W. Gibson	145-148
Provincial Assay Office, Belleville. By J. Walter Wells	148-150
The Vermilion River Placers. By A. P. Coleman	151-159
Iron Ores of Nipissing District. By Willet G. Miller	160-180
Iron Ranges of the Lower Huronian. By A. P. Coleman	181-212
The Iron Belt on Lake Nipigon. By J. W. Bain	212-214
Sea Beaches of Eastern Ontario. By A. P. Coleman	215-227

Maps:

- Map of part of the District of Nipissing to accompany Report by W. G. Miller on the Iron Ores of Nipissing, Scale 4 miles to 1 inch.

Vol. XI, 1902

Introductory Letter. By Thos. W. Gibson	3-8
Statistics for 1901. By Thos. W. Gibson	9-60
Summer Mining Schools. By W. L. Goodwin	61-69
Michipicoton Mining Division. By D. G. Boyd	70-75
Provincial Assay Office. By J. Walter Wells	76-79
Mining Land Agencies. By Thos. W. Gibson	80-82
Ontario at the Pan-American. By Frank N. Speller	83-90
The Mineral Industries of Sault Ste. Marie. By A. B. Willmott	91-100
Arsenic in Ontario. By J. Walter Wells	101-122
The Corniferous Exposure in Anderdon. By Rev. Thos. Nattress	123-127
Iron Ranges of Northwestern Ontario. By A. P. Coleman	128-151
The Michipicoton Iron Region. By A. P. Coleman and A. B. Willmott.....	152-185
The Eastern Ontario Gold Belt. By Willet G. Miller	186-207
Syenites near Port Coldwell. By A. P. Coleman	208-213
Lake Temiscaming to the Height of Land. By Willet G. Miller	214-230
The Mines of Ontario. By W. E. H. Carter	231-298

Maps:

- (1) Geological map of the Michipicoton Iron Range. By A. P. Coleman and A. B. Willmott, Scale 40 chains=1 inch.
- (2) Map of the Helen Iron Mine. By A. B. Willmott, Scale 300 feet to 1 inch.
- (3) Outline map of the Eastern Ontario Gold Belt to accompany Report of W. G. Miller, Scale 4 miles to 1 inch.

Vol. XII, 1903

Introductory Letter. By Thos. W. Gibson	3-6
Statistics for 1902. By Thos. W. Gibson	7-53
Summer Mining Schools. By W. L. Goodwin	54-61
Michipicoton Mining Division. By D. G. Boyd	62-67
Provincial Assay Office. By J. Walter Wells and A. G. Burrows.....	68-72
Mines of Northwestern Ontario. By Willet G. Miller	73-107
Mines of Eastern Ontario. By W. E. H. Carter	108-140
Fossiliferous Rocks of Southwest Ontario. By W. A. Parks	141-156
Up and Down the Mississauga. By L. C. Graton	157-172
Round Lake to Abitibi River. By L. L. Bolton	173-190
Peat Fuel: Its Manufacture and Use. By W. E. H. Carter	191-234
The Sudbury Nickel Deposits. By A. P. Coleman	235-303
Iron Ranges of Northern Ontario. By Willet G. Miller	304-317
Moose Mountain Iron Range. By C. K. Leith	318-321
Magnetic Concentration of Iron Ores. By J. Walter Wells	322-342

Maps:

- (1) Geological map of Copper Cliff Mine and vicinity, by A. P. Coleman.
- (2) Geological map of Stobie and Frood Nickel Mines, by A. P. Coleman.

Vol. XIII, 1904

Part I

Introductory Letter. By Thos. W. Gibson	x-xiii
Statistical Review. By Thos. W. Gibson	1-45
Michipicoton Mining Division. By D. G. Boyd	46-49
Provincial Assay Office. By A. G. Burrows	50-51
Summer Mining Schools. By W. L. Goodwin	52-57
Mines of Western Ontario. By W. E. H. Carter	58-87
Mines of Eastern Ontario. By Willet G. Miller	88-95
Cobalt-Nickel Arsenides and Silver. By Willet G. Miller	96-103
The Abitibi Region. By George F. Kay	104-134
Economic Resources of Moose River Basin. By James Mackintosh Bell.....	135-179
Devonian Fauna of Kwataboahagan River. By William Arthur Parks	180-191
The Northern Nickel Range. By A. P. Coleman	192-222
The Iron Belt West of Hutton. By M. T. Culbert	222-224
The Iroquois Beach in Ontario. By A. P. Coleman	225-244

Maps:

- (1) Map of Northern Nickel Range, by A. P. Coleman, Scale 2 miles to 1 inch.
- (2) Map of Northern Parts of the Districts of Algoma and Nipissing, to accompany Report of J. M. Bell, Scale 8 miles to 1 inch.
- (3) Map of Lake Iroquois, by A. P. Coleman; Parts in New York after H. L. Fairchild.

Part II

Preface. By Willet G. Miller	v-vii
The Limestones of Ontario. By Willet G. Miller	1-126

Vol. XIV, 1905

Part I

Statistical Review. By Thos. W. Gibson	1-36
Summer Mining Classes. By W. L. Goodwin	37-42
Mines of Western Ontario. By W. E. H. Carter	43-75
Mines of Eastern Ontario. By E. T. Corkill	76-88

Petroleum and Natural Gas. By E. T. Corkill	89-117
Cement Industry of Ontario. By P. Gillespie	118-183
Explorations in Abitibi. By James G. McMillan	184-212
Agricultural Resources of Abitibi. By Archibald Henderson	213-253
Loon Lake Iron-Bearing District. By W. N. Smith	254-260
Boston Township Iron Range. By Willet G. Miller	261-268
Pre-Cambrian Nomenclature. Report of International Committee on Lake Superior Geology	269-277
Iron Ranges of Michipicoten West. By J. M. Bell	278-355
Map of the Michipicoten Iron Range west of the Magpie River, to accompany Report by James Mackintosh Bell, geologically colored. scale 2 miles to 1 inch.	

Part II

The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming. By Willet G. Miller	1-62
Maps:	
(1) Geological Map of the Cobalt-Nickel-Arsenic-Silver area.	
(2) Sketch map showing location of veins in Coleman.	

Part III

The Sudbury Nickel Field. By A. P. Coleman	1-183
Maps:	
(1) Geological Map of Sudbury Nickel Region, Scale 1½ miles to 1 inch.	
(2) Map of Copper Cliff Mine and vicinity.	
(3) Map of Stobie and Frood Nickel Mines.	

Vol. XV, 1906

Part I

Statistical Review. By Thos. W. Gibson	1-38
Summer Mining Classes. By W. L. Goodwin	39-46
Mines of Ontario. By E. T. Corkill	47-107
Natural Gas and Petroleum. By Eugene Coste	108-115
Exploration in Mattagami Valley. By H. L. Kerr	116-135
Agricultural Resources of Mattagami. By Archibald Henderson	136-155
The Animikie Iron Range. By L. P. Silver	156-172
Iron Ranges of Eastern Michipicoten. By A. P. Coleman	173-206
Maps:	
(1) Map of the Animikie Iron Range near Port Arthur, Ontario, geologically colored. Scale 1 mile to 1 inch. To accompany Report by L. P. Silver.	
(2) Map of the Iron Ranges of Southeastern Michipicoten, geologically colored. Scale 2 miles to 1 inch. To accompany report by A. P. Coleman.	

Part II

Preface. By Willet G. Miller	1-2
Clay and the Clay Industry of Ontario. By M. B. Baker	3-120

Vol. XVI, 1907

Part I

Introductory Letter. By Thos. W. Gibson	2
Statistical Review. By Thos. W. Gibson	3-48
Summer Mining Classes. By W. L. Goodwin	49-54
Mines of Ontario. By E. T. Corkill	55-91
Oil and Gas in Kent. By C. W. Knight	92-104
I. Iron Ranges East of Lake Nipigon. By A. P. Coleman	105-135
II. Iron Ranges East of Lake Nipigon. By E. S. Moore	136-148
Iron Pyrites in Ontario. By E. L. Fraleck	149-201
The Earder Lake District. By R. W. Brock	202-218
Lake Abitibi Gold Deposits. By Willet G. Miller	219-220
Grenville-Hastings Unconformity. By Willet G. Miller and Cyril W. Knight.	221-223

Map:

Geological sketch map, Larder Lake Region, Scale 1 mile to 1 inch, to accompany Report by R. W. Brock.

Part II

Preface. By Willet G. Miller	ix-xvi
The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming (Third Edition):	
Chap. I. Cobalt-Nickel Arsenides and Silver. By Willet G. Miller	1-67
Chap. II. The Working Mines of Cobalt. By E. T. Corkill	68-116
Chap. III. Other Temiskaming Cobalt Areas:	
Report on Montreal River and Temagami Forest Reserve. By Cyril W. Knight	117-128
Notes on the Bloom Lake Area. By W. R. Rogers	129-130
A Mineralized Area in the townships of Casey and Harris. By R. E. Hore.	131-134
A Part of the Area south of Lake Wendigo. By R. E. Hore	135-137
The Area west of Bay Lake on the Montreal River. By J. S. DeLury... ..	138-146
Cobalt-Silver Veins south of the Township of Lorrain. By Cyril W. Knight ..	147-149
Chap. IV. Lake Superior Silver Deposits. By Willet G. Miller	150-170
Appendix I: List of Mining Companies incorporated in connection with Cobalt. By Willet G. Miller	171-181
Appendix II: The Early History of the Cobalt Industry in Saxony. Translated by G. R. Mickle	182-199

Maps:

- Geological map (colored) of part of the Cobalt area, scale 400 feet to one inch, with contour intervals of 10 feet.
- Geological map (colored) of Cobalt-Nickel-Arsenic-Silver area, near Lake Temiskaming, Ontario, scale one mile to one inch.
- Index map (uncolored) showing mining properties in Coleman.
- Plan (uncolored) of Bloom lake area.

BULLETINS

- No. I. The Gold Fields of Western Ontario, 1896. A preliminary report by Prof. A. P. Coleman, Ph.D.
 - No. II. Anthracitic Carbon or Anthraxolite, 1896. By Prof. A. P. Coleman. Re-published under the title of "Anthraxolite or Anthracitic Carbon" in the Sixth Report.
 - No. III. Michipicoton Mining Division, 1897. A Preliminary Report by Arthur B. Willmott, M.A., B.Sc. Re-published in Seventh Report, Part II.
 - No. IV. Mineral Production of Ontario for 1901. By Thos. W. Gibson.
 - No. V. Peat Fuel: Its Manufacture and Use, 1900. By W. E. H. Carter, B.A., Sc. Re-published in Twelfth Report.
 - No. VI. Mineral Production of Ontario for 1903. By Thos. W. Gibson.
- A separate volume under the title "The Gold Fields of Ontario" was published in 1897. Its contents were "Second Report on the Gold Fields of Western Ontario," by Dr. A. P. Coleman, "A Tour of Inspection in Northwestern Ontario," by A. Blue, (both re-published from the Fifth Report of the Bureau), "The Gold Fields of Western Ontario," (being Bulletin No. 1), and a short general introduction, by Mr. Blue.

EXPLANATION OF INDEX

This Index includes references to the following publications :—

Report of the Royal Commission on the Mineral Resources of Ontario, referred to as		R. C.
Reports of the Bureau of Mines :		
Volume I, 1891.....	“	Vol. i
II, 1892.....	“	ii
III, 1893.....	“	iii
IV, 1894.....	“	iv
V, 1895.....	“	v
VI, 1896.....	“	vi
VII, 1897 ; parts i, ii and iii.....	“	vii
VIII, 1899.....	“	viii
IX, 1900.....	“	ix
X, 1901.....	“	x
XI, 1902.....	“	xi
XII, 1903.....	“	xii
XIII, 1904, part i.....	“	A xiii
“ ii.....	“	B xiii
XIV, 1905, part i.....	“	A xiv
“ ii.....	“	B xiv
“ iii.....	“	C xiv
XV, 1906, part i.....	“	A xv
“ ii.....	“	B xv
XVI, 1907, part i.....	“	A xvi
“ ii, <i>See</i> Appendix.		
Bulletin I. The Gold Fields of Western Ontario.....	“	Bull. i
II. Anthracitic Carbon or Anthraxolite	“	Bull. ii
III. Michipicoton Mining Division.....	“	Bull. iii
IV. Mineral Production of Ontario for 1901.....	Included in	Vol. xi
V. Peat Fuel : Its Manufacture and Use.....	“	xii
VI. Mineral Production of Ontario for 1903.....	“	xiii

NOTES

All places referred to in this Index are in Ontario unless otherwise mentioned.

The rulings of the Geographic Board of Canada have been adopted for the orthography of all places in the Dominion.

For purposes of more exact reference certain areal names are used in the Index that are not the names of judicial or mining divisions, but refer to areas covered by published geological sheets. These are:

Manitou district, comprising that part of Rainy River district to the east of the Lake of the Woods and north of Rainy lake, extending from Hawk Lake Station to Taché station on the Canadian Pacific railway, and from the foot of Manitoulin lake to a few miles north of the railway.

Seine River district, comprising that part of Rainy River district lying to the north of Hunter island, and extending from the boundary of Thunder Bay district westerly nearly to Rainy lake.

Shebandowan district, comprising that part of Thunder Bay district lying between its western boundary and Thunder Bay and extending north and south between Carlstadt station and Port Arthur.

ABBREVIATIONS

Alg.—District of Algoma.

B.C.—Province of British Columbia.

C.P.R.—Canadian Pacific Railway.

G.T.R.—Grand Trunk Railway.

H.B.C.—Hudson's Bay Co.

Kee.—Provisional district of Keewatin.

Lab.—Labrador and the provisional district of Ungava.

Man.—Province of Manitoba.

N.B.—Province of New Brunswick.

N.S.—Province of Nova Scotia.

Nip.—District of Nipissing.

Ont.—Province of Ontario.

R.C.—Royal Commission on the Mineral Resources of Ontario.

R.R.d.—Rainy River district.

Th.B.d.—Thunder Bay district.



General Index

	Page.	Vol.
A 3 silver location. <i>See</i> Three A mine.		
A 257, 273-275 iron locations, RIDDELL SIDING, R. R. D.		
Notes on, by Fraleck.....	175, 176	A xvi
A.A. Company	23	i
A.A. island, LARDER LAKE, NIP. . .	213	A xvi
Aachen, <i>See</i> Aix-la-Chapelle.		
Aalborg Mosstroelsefabrik, DEN-MARK.		
Peat manufacturing by.....	211	ii
Aaron, John D.		
Manager, Long Lake gold mine.	256	xi
Route from Wabigoon lake to Minnitaki lake, described by.	171, 172	vii
Abbott and Harrison.		
Dynamite manufactured by, Brockville tp.....	152	A xvi
Abel, Sir Frederick.	96	iii
John		
Copper mining by, Michipicoten harbour.....	115	ix
	140	x
	73	xi
	65	xii
Aberdeen, SCOTLAND.		
Building stone imported from... Brick Works.	15	A xiv
Capital and date of charter.....	25	A xv
Works of, notes on.....	106, 107	B xv
Development Co.		
Capital and date of charter.....	24	A xiii
(COFFIN) tp., ALG.		
Copper in.....	19	viii
	22	xi
mining.....	95	ix
Iron ore in.....	143	R C
hematite.....	199	ix
mining.....	64	ii
notes by Coleman.....	188, 189	x
prospecting.....	97	vii
Rocks in.....	39	iii
Aberdour (or Aberthaw), FIFE CO., SCOTLAND.		
Lime from, analysis.....	107	i
<i>Abies balsamea,</i> <i>See</i> Balsam.		
Abigail, Francis		
Evidence by, <i>re</i> royalties.....	23, 24	i
Abinger tp., ADDINGTON CO.		
Mica in.....	245	i
	220	v
	205	xi
Abino pt., BERTIE TP., WELLAND CO.		
Gas at.....	102, 104	A xiv
analysis.....	106	ix
Onondaga formation at.....	103	A xiv
Section from, to St. Catharines..	103	A xiv
Abitibi and Cobalt Manufacturing Co.		
Capital and date of charter.....	27	A xiv
1 M.I.		

	Page.	Vol.
Abitibi branch, BLANCHE RIVER. <i>See</i> Blanche river, L. Timiskaming.		
canyon, ABITIBI RIVER.		
Description.....	145	A xiii
Rocks at.....	143	A xiii
dist., NIP.		
Agricultural resources of:		
report by Henderson.....	213-245	A xiv
Jarvis.....	121-134	A xiii
Explorations in:		
report by Kay.....	104-120	A xiii
Kerr.....	124-127	A xv
McMillan.....	184-212	A xiv
lake, ONT. AND QUE.		
Agricultural land near. <i>See</i> Abitibi dist.		
Explorations north west of, report by Workman.....	250-253	A xiv
Fort on, early French.....	197	v
Gold on.....	55, 218	A xvi
notes by Miller.....	219, 220	A xvi
Indian villages on, photo... ..	176, 177	A xiii
Iron ore on.....	23	R C
magnetite.....	317	xii
Kaolinic clays on.....	12	A xiii
Pine on.....	119	iv
Rocks on and near:		
chlorite schist.....	211	A xiv
Huronian.....	124	iv
quartzite.....	18, 20	R C
serpentine.....	81	i
	82, 83	B xiii
Wheat and vegetables grown on.	50	A xvi
Mg. and Development Co.		
Capital and date of charter.....	29	A xvi
river, NIP.		
Birds on.....	253	A xiv
Character of.....	192	viii
Clay belt on, width of.....	175	A xiii
Description, by McMillan..	185, 186	A xiv
Falls on, photos.....	200, 201	viii
	144, 145	A xiii
at mouth, cause of.....	147	A xiii
Fire-clay on.....	159	A xiii
Fish in.....	253	A xiv
Fossils, <i>Aricula textilio</i>	188	A xiii
Devonian.....	142	A xiii
Kaolin on.....	4, 173	i
Length of.....	103	iv
Lignite on.....	70	R C
	178, 181	i
	203	ii
	125	iv
	138	A xiii
analyses.....	175	A xiii
photos.....	176, 177	A xiii
report by J. M. Bell.	169-174	A xiii
Minor ref. to.....	201	v
Notes on, by Parks.....	181-190	viii

	Page.	Vol.		Page.	Vol.	
Abitibi river, NIP.—Con.			Accidents.—Con.			
Notes on, by Henderson, and photos	229-234	A xiv	Cobalt, dynamite magazine	52	A xvi	
Rocks on and near:			Copper Bay mine	94, 95	ix	
Carbonaceous shales	159	A xiii	Copper Cliff mine	182	iii	
Devonian, photo.	160, 161	A xiii		243, 244	iv	
gabbro, petrography	140	A xiii		68, 273	vi	
glacial age	143	A xiii		96	vii	
limestone, bituminous	128	iv	<i>See also</i> Inspector's reports below.			
Corniferous	47	R C	Craigmont steamship engineer	40	A xv	
fossiliferous	32	B xiii	Evans mine, notes by Slaght	185	iii	
notes by McMillan	205, 206	A xiv	Frenchmen rapid	190	vii	
petrographical notes	210-212	A xiv	Hamilton furnace	30	iv	
Route from, to Otto tp., rep.			Inspector's report on, 1892	254-256	ii	
by Belton	173-190	xii		1893	167-177	iii
Soil from	130	A xiii		1894	199-215	iv
	244	A xiv		1895	235-240	v
analysis	235	A xiv		1896	66-70	vi
Timbered land along	146, 177	A xiii		1897	29-33	vii
200, 201, 228, 232, 233	A xiv			1898	23-28	viii
Trading post on, early French	196	v		1899	25-32	ix
Tributaries of	199	A xiv		1900	42-49	x
notes by McMillan	202, 203	A xiv		1901	48-57	xi
Water power on	252	vii		1902	42-48	xii
	193	viii		1903	38-41	A xiii
	145	A xiii		1904	25-29	A xiv
	208, 235	A xiv		1905	29-35	A xv
				1906	32-35	A xvi
Abraham.			Lake of the Woods, Bureau of			
Journey by, on Euphrates, ref. to	166	i	Mines party	116	vii	
C. A.	140	iv	Madoc iron foundry	324	R C	
Louis J.	269	xi	Merritton, cyclone	17	viii	
	81	A xiii	Michipicoten island, Indians			
Robert			drowned off	284	A xiv	
Fossil tracks found by, near Beau-			Moirs river, flood at Actinolite	22	A xiv	
harnois, Que	40	R C	Pinchin drowned	58	A xv	
Abram falls, ABRAM LAKE, R. R. D.			Pointe-aux-Mines, copper mining	93	R C	
Boulders near, granite	153	vii	Sault Ste. Marie, shooting rapids	109	v	
Gold prospecting near	178	vii	Schneeburg, flood	75	B xiv	
Photo of	124, 125	vii	Sudbury dist., cloudburst	273	vi	
Rocks on and near	168	vii	due to blasting hot			
lake, R. R. D.			ore	183	iii	
Geology of neighbourhood	59	v	Sultana gold mine	66, 67, 249	vi	
	167	vii	<i>See also</i> Inspector's reports above.			
Glacial striae near	88	v	Accipenser. <i>See</i> Sturgeon.			
Gold on and near, mining	267	vi	Accipiter atricapillus. <i>See</i> Goshawk,			
prospecting	177	vii	American			
Minor ref. to	165	vii	" <i>velox.</i> <i>See</i> Hawk, sharp			
Schist on	87	v	shinned			
conglomerate	96	v	Acer. <i>See</i> Maple.			
Timber near	174, 181	vii	" <i>dasycarpum.</i> <i>See</i> Maple, soft or			
Abrasive materials.			silver			
<i>See also</i> Corundum, Emery, etc.			" <i>pennsylvanicum.</i> <i>See</i> Maple,			
List of	216	vii	mountain			
Prices of, 1898	237	viii	" <i>rubrum.</i> <i>See</i> Maple, red or			
Abrey, G. R.			scarlet			
Ref. to surveys by, Sturgeon lake	38	x	" <i>saccharinum.</i> <i>See</i> Maple, soft			
<i>Acanthis linaria.</i> <i>See</i> Redpoll.			or silver			
Acanthite.			" <i>saccharinum</i> (fossil).			
Joachimsthal, Bohemia	61	B xiv	Ottawa, near	225	x	
Accidents.			" <i>saccharum.</i> <i>See</i> Sugar, maple			
<i>See also</i> Fires.			" <i>spicatum.</i> <i>See</i> Maple, mountain			
Abitibi river, Speight's party	250	A xiv	Acetate of lime.			
"Arcadia" wrecked	189	A xv	As a by-product of charcoal burn-			
Black Donald graphite mine,			ing	394, 481	R C	
flooded	12, 92	A xiii	Lime used in manufacture of	2, 3	B xiii	
Bleazard mine, notes by Slaght			Acetic acid.			
	247, 255, 256	ii	As a by-product of smelting	391	R C	
Bruce mines, machine building	94	R C	Importation and price of	481	R C	
steamer sunk	95	R C				

	Page.	Vol.		Page	Vol.
Acetic acid. — <i>Con.</i>			Actinolite. — <i>Con.</i>		
Sulphuric acid in manufacture of, 193 A	xvi		Actinolite.— <i>Con.</i>		
Acetylene gas.			mining, 1893.....	91	iii
See also Calcium carbide.			1897.....	98	vii
Notes on, by Blue.....	139-141	iv	1901.....	204	xi
Paper on.....	32-41	v	1902.....	56	xii
	27-32	vi		92 A	xiii
	20-22	vii	stopped by accident to dam.	87 A	xiv
by Lewes.....	142-151	iv	notes by Merritt.....	79	R C
Wilson & Suckert. 152-166	iv		mill in, description.....	93	iii
Use of, extending.....	18 A	xiii	injured by flood.....	22 A	xiv
Light, Heat and Power Co. ...	37	v	uses of.....	11 A	xiii
Lighting Co. of London ...	20, 21	vii	Cement making at.....	87	R C
Lighting Co. of St. Mary's ...	20	vii	Clay from, analysis.....	18 B	xv
<i>Achillea millefolium.</i>			Marble at.....	200	xi
Abitibi Lake dist.	242 A	xiv		56	xii
Mattagami valley.....	151 A	xv		62 B	xiii
Achuter portage, MISSINABEE RIVER.	195	viii	analysis.....	65, 66 B	xiii
Acme Color Works.			character.....	69, 82	R C
Arsenic manufactured by.....	122	xi	diagram of deposit.....	76	R C
Oil Co.			notes by Merritt.....	75	R C
Capital and date of charter.....	31 A	xvi	Whitney.....	80-82	R C
Work by, in Kent co.....	92 A	xvi	quarried.....	204	xi
<i>Acrophyltum oncidense.</i>				12, 64 B	xiii
Kwataboahagan river.....	181 A	xiii	Mispickel at.....	102	xi
North Cayuga tp.....	146	xii		56	xii
Port Colborne (near).....	35	xi	arsenic making from.....	288	viii
<i>Actea spicata, var. rubra.</i>			mining, notes by Miller.....	200	xi
Abitibi dist.	241 A	xiv	Acton, Admiral	153	iii
Mattagami valley.....	150 A	xv	J. B.	174	ii
Actinolite.			Acton, BAGOT CO., QUE.		
Actinolite (Bridgewater).....	52	R C	Anthraxolite in.....	6 Bull	ii
	27, 204, 205	xi	Lime-kilns in.....	14 A	xiii
notes by Merritt.	79	R C	Acts of Parliament.		
	91	iii	British Columbia, Mining Act,		
mining of.....	204	xi	1884.....	273	R C
mill, description....	93	iii	Ceylon, ordnance No. 7, 1882...	43	i
Analysis.....	192	ix	Great Britain, Ashbourne Min-		
Exhibited at World's Fair.....	188	ii	ing Act.....	36, 37	i
Hardness of.....	202	vi	Natal, Mining Act 34, of 1888. .	43	i
Hungerford tp.....	52	R C	New Zealand, Custom Duties		
Larder lake.....	220	xi	Act, 1882.....	45	i
Madoc tp., associated with iron..	37	ii	Ontario:		
Michigan, U. S., in Ishpeming			See also Reports on Mining		
formation.....	151	ix	Laws.....	256-307	R C
Mining of, inspector's report, 1897.	98	vii		221-229	ii
Occurrences of.....	192	ix	For the encouragement of iron		
	27	xi	mining:		
Paper on, by Blue.....	89-93	iii	notes on.....	26, 27	xi
Specific gravity of.....	202	vi	ref. to.....	15	ix
Statistics of, 1901.....	12, 13	xi	See also Iron Mining Fund.		
1902.....	12, 13	xii	Mining Act, 1864....	265, 266, 272	R C
1902-4.....	4	xv	1865.....	221, 222	ii
	6 A	xvi	1868.....	268, 273	R C
1903.....	2 A	xiii	1869.....	267	R C
1904.....	1, 3, 22 A	xiv	1890, notes by Blue.7,8	i	
Sudbury occurrences.....	163 C	xiv	1898.....	240	v
Clarabelle mine.....	40 C	xiv		7, 8	viii
Evans mine.....	292	xii	1906.....	36 A	xvi
Frood mine.....	57 C	xiv	notes on, by Blue.....	3	vii
Worthington mine.....	292	xii	provisions of.....	225, 226	ix
	31 C	xiv	Joint Stock Act, ref. to.....	48	i
Uses of.....	87	R C	Railway Land Subsidy Act ...	241	R C
	26	xii	Re children in mines.....	22	iv
	11, 12 A	xiii	Re corundiferous lands... 248, 249	viii	
Actinolite (BRIDGEWATER), ELZEVR			Re duties of coroners.....	177	iii
TP., HASTINGS CO.			Re nickel ores, refining of ...	213	ix
Actinolite in.....	52, 86	R C	Re natural gas, quality of.....	21	vii
	27	xi	tax on.....	18	x
			Re royalties, abandoned ...	259	R C

	Page.	Vol.		Page.	Vol.
Acts of Parliament.—Con.			Adams, R.	222	vii
Ontario.— <i>Con.</i>			R. N.	272	xi
<i>Re</i> water-powers 253-256	vii			99	xii
To create a Bureau of Mines,			(<i>See also</i> Soo Prospecting and De-		
<i>ref. to</i> 4	i		velopment Co. and Copper		
To prevent blasting in hot ores. 175	iii		Queen Mg. Co.)		
To provide for the purchase of			Robert		
diamond-drills..... 225	v		Evidence by, before Royal		
United States. <i>See</i> Sherman Act.			Com..... 53, 175	R C	
Victoria, Aust., Mining Act, 1890 44	i		W.		
<i>See also</i> Mining laws, Royalties,			Mica mining by, in N. Burgess tp. 131	xii	
<i>etc.</i>				85 A	xiii
AD2 gold mine. <i>See</i> Golden Crescent			W. H.		
mine.			Data by <i>re</i> sulphuric acid.... 193, 194 A	xvi	
Gold Mining Co.,			<i>Ref. to</i> work by, on pyrites in		
Capital and date of charter 7	vii		Louisa co., Va.... 172 A	xvi	
<i>See also</i> Golden Crescent gold			W. N.		
mine.			<i>Ref. to</i> paper by, on iron ore in		
Ada G. gold mine, NEAR MOORE			U. S..... 24	ii	
BAY, L. OF THE WOODS.			Adams Center, NEW YORK STATE.		
Evidence <i>re</i> before Royal			Altitude of beach at..... 234 A	xiii	
Com..... 116, 117	R C		lake, N. BURGESS TP., LANARK		
Minor <i>ref.</i> 21	iii		co.		
Adair, Charles 166	ix		Hematite in..... 140	R C	
Robert			lake, R. R. D.		
Accident to..... 32	ix		Quartz from, assay.... 180	vii	
Adamant.			Adamson, Lawrence William		
Mills, in Toronto, for making... 112	i		Evidence by, <i>re</i> royalties in Great		
Mfg. and Mg. Co.,			Britain 17	i	
Contract of, with Alabastine Co. 279	vi		William		
Gypsum mining by, near Cayuga, 241	i		Brick yard of, at Walkerton,		
Mine of, leased to Alabastine Co., 197	iii		<i>notes on</i> 60 B	xv	
Notes on, 1890 111, 112	i		Addington co.		
Adamantine spar. <i>See</i> Corundum.			Apatite deposits in..... 436	R C	
Adams, Charles			Celestite from, crystals of..... 190	ii	
Killed, 1899..... 28	ix		Iron ores of, chromium in 233	vii	
Dr. Frank D.			Mica in, white..... 149	R C	
Analysis by, of dolomite from			Rocks in, classification by Vennor. 43	ii	
Coboconk 114 B	xiii		limestone, <i>notes by</i>		
Notes by, on nepheline-syenite.. 245	viii		Miller..... 26 B	xiii	
Photo of..... 277 A	xiv		Topography of, character..... 437	R C	
<i>Ref. to</i> notes by, on the Flow of			Adelaide tp., MIDDLESEX CO.		
Marble..... 8 B	xiii		Brickyard in. <i>See</i> Strathroy, and		
<i>Ref. to</i> surveys by:			Kerwood.		
Garden River region..... 124	viii		Adiantum pedatum.		
Hastings dist..... 218	v		Abitibi Lake dist..... 242 A	xiv	
208, 209, 227, 228	vii		Adirondack mountains, Vt.		
218, 244, 250	viii		Altitude of 193	v	
213	xi		Magnetite in 476	R C	
Three Rivers dist., Que..... 92	iv		Adjuda Quarry Co. 98	i	
	v		Adler, G. 86 A	xv	
	159	vii	Adlers Sons.		
<i>Ref. to</i> work by, on Sudbury			Ar-enic manufactured by. 122	xi	
rocks 3, 17 C	xiv		Admiralty, <i>The</i> <i>See</i> British Ad-		
Report by, and others, on Pre-			miralty.		
Cambrian nomenclature. 269-277 A	xiv		Ægirine.		
Segregation theory of, for Sud-			Heron bay, L. Superior..... 192	ix	
bury nickel deposits..... 236, 278	xii		Aerolites.		
Views of, on Laurentian system. 194	v		Definition of..... 528	R C	
James			Africa.		
..... 54 A	xiii		<i>See also</i> South Africa, <i>etc.</i>		
James H. 142 A	xiv		Copper production, 1880-1887... 371	R C	
John H.			Smelting furnace in, early 355	R C	
Acknowledgments to 128	xii		Agalmatolite.		
Mica works of, Perth 131	xi		Laurentian and Silurian areas. . 192	ix	
	85 A	xiv	Agaskagon lake, NETTOGAMI RIVER,		
	106 A	xv	MOOSE RIVER:		
L. 110	vii		Description of river near..... 137 A	xii	
Peter 195	iii		Notes on 148 A	xii	

	Page.	Vol.		Page.	Vol.
Agassiz, Jean Louis Rodolphe			Agricultural land.—<i>Con.</i>		
Description by, of shores of L.			Rainy River valley.....	207	R C
Superior.....	200	vii	notes by Blue.....	163-165	v
Ref. to work by, N. shore of L.			Seine River dist.....	67, 91	v
Superior.....	171-173	ii	Speight's meridian line, E. of		
.....	136	vi	L. Superior.....	197-203	viii
Exploration and Mining Co.			Sudbury dist.....	241	xii
Capital and date of charter	9	ix	.....	105 C	xiv
lake (GLACIAL.)			Northern nickel range.....	137	vii
Area of, various views.....	91	v	.....	193 A	xiii
Notes on, by Blue.....	202	v	Sulphuric acid for.....	107 A	xvi
Origin of.....	222	x	Timagami Lake dist.....	56, 57	R C
Upham's work on, ref. to.....	101	xi	.....	161	x
Agates			Timiskaming lake.....	118	iv
Lake Superior	61	R C	.....	174	ix
Gargantua harbour	132	viii	Toronto, near.	198	v
Michipicoten island.....	190, 193	ii	Turtle River valley.....	91	v
.....	144	viii	Whitefish valley, Th. B. dist.	206, 239	R C
Occurrences	192, 193	ix	<i>See also</i> Fertilizers, Soil, etc.		
Agawa (AGUAWA) river, L. SUPERIOR.			implements.		
Description of, by Willmott	131	viii	Statistics, 1881.....	116	ii
Terraces at mouth of, level of...	155	viii	1881-1887.....	249	R C
Agglomerate.			<i>Agrimonia eupatoria.</i>		
Michipicoten div., petrography.	342 A	xiv	Abitibi Lake dist.....	241 A	xiv
Wabigoon Lake dist.....	183	vii	Agrippa.		
Agiwa river. <i>See</i> Agawa river.			Architecture by.....	16	iv
Agricultural land.			Aguawa river. <i>See</i> Agawa river.		
Abitibi dist., report by :—			Agwasuk river, KWATABOAHEGAN		
Henderson.....	213-245 A	xiv	RIVER	137 A	xiii
Jarvis	121-134 A	xiii	Ahn, Robert H.		
Abitibi valley.....	192, 193	viii	Experiments by, on placer de-		
Agassiz lake, the cause of.....	202	v	posits, Hanmer township.....	18	xi
Agawa valley.....	131	viii	Gold prospecting by :		
Atikokan iron range	72	ii	L. of the Woods dist.	181, 185	v
Blanche river.....	215	xi	Vermilion river.....	82	xi
Brockville dist.....	152 A	xvi	Manager for :		
Bruce Mines dist.....	124	viii	Crown Point gold mine.....	59	ix
Cobalt dist.....	7, 32, 33 B	xiv	Baden-Powell gold mine.....	93	xii
Dunchurch and vicinity.....	170	ix	Dominion Gold Mg. and Re-		
Garden River, near.....	197	viii	duction Works.....	172-177	v
Hinterland, The, notes by Bell,			.....	50, 109, 251, 252	vi
Borron, Gibson, Fleming, etc.	108-116	iv	Edna gold mine.....	122	vii
Iroquois beach.....	237, 238 A	xiii	Elsie gold mine.....	110	vii
Kaministikwia valley	146	xi	Gold Reefs Co.....	59	ix
Korah tp.....	149	viii	Golden Gate gold mine.....	98	vi
Kent co.....	92, 102 A	xvi	Norman Reduction Works....	99	viii
McCann tp.....	249, 253 A	xiv	.....	88	ix
Manitoba, how formed.....	91	v	Notes by, on Dominion Reduction		
Mattagami valley . 121, 122, 124,	127 A	xv	Works	259	vi
Michipicoten div.....	203	viii	Owner of Queen and Standard		
.....	296 A	xiv	mines.....	49, 50	vi
Mississagi valley.....	152	viii	Aiken, R. H.		
Montreal river, mouth of	177	xi	Analysis by, of ore from Strath-		
Night-hawk Lake dist.....	117	vi	cona nickel mine.....	67 C	xiv
Nipigon Lake dist.....	212	x	Assays by, of nickel ores.....	199 A	xiii
Niven's base line and S. of.....	142	ix	Aikman, David		
Occupation of, notes by Gibson.	137	iv	Peat process of.....	206	ii
Opening up of certain, due to			notes.....	199	i
C. P. Ry.....	103	iv	ref. to.....	201	xii
Pigeon river, north of	146	ix	quarry, NEAR YORK.		
Pishkanogama valley.....	135	ix	Gypsum of, notes on	53 B	xiii
Porcupine Lake dist.....	177	viii	Ainsworth, KOOTENAY LAKE, B.C.		
Rainy Lake dist.....	65	R C	Calamine at.....	210	vi
.....	44, 45, 72	iv	Air.		
Wabigoon region....	92	v	Composition of	447	R C
.....	171	vii	Aitken, J. W. <i>See</i> Maple City Oil		
.....	182	vii	and Gas Co.		

	Page.	Vol.		Page.	Vol.
Aitken, D. A.	102	vii	A L 384=401 iron locs., E. of L.		
	102	viii	NIPIGON.		
Aitkens, James			Notes on, by Coleman..	125, 126, 132 A	xvi
Accident to.....	23	viii	402, 403 iron locs., N. of		
Aix-la-Chapelle, RHENISH PRUSSIA,			STURGEON RIVER, L. NIPIGON.....	117, 118 A	xvi
Mining school at.....	494, 513	R C	404 to 408 iron locs., N. of		
Ajax Production Co.			STURGEON RIVER, L. NIPIGON.		
Capital and date of charter.	26 A	xv	Notes on, by Coleman.....	115, 117 A	xvi
Ajibik quartzite. <i>See</i> Algonkian formation.			Rocks on, eruptive.....	129 A	xvi
Akerman, Prof. Richard			412 iron loc., SAND CREEK,		
Notes by, on Stockholm mining school.....	513	R C	L. NIPIGON.		
Swedish pig-iron manufacture....	477	R C	Notes on, by Coleman.....	122 A	xvi
foundry, ESTOF, SWEDEN.....	199	xii	413, 414 iron locs., near		
Akikenda falls, MISSISSAGI RIVER,			POPLAR LODGE, L. NIPIGON.		
L. HURON. <i>See</i> Aubrey falls.			Rocks of, conglomerate.....	112 A	xvi
Akron, EBIE CO., N. Y.			iron formation 119-122, 126 A	xvi	
Limestone at, analysis.....	15, 16 B	xiii	petrography	132 A	xvi
Corniferous.....	156	i	photo.....	120 A	xvi
Vitrified Press Brick Co.			416 iron loc., near L. Eva,		
Analysis of shale used by.....	119	iii	near L. NIPIGON.		
A L 61-65 gold locs., GOLD CREEK,			Diamond drilling in.....	120 A	xvi
MATAWIN RIVER.....	82	v	Rocks in.....	121, 132 A	xvi
74-76 gold locs. <i>See</i> Wiegand mine.			418=420 iron locs., N. of		
104 gold loc., SHOAL LAKE,			STURGEON RIVER, L. NIPIGON.		
SEINE RIVER..	66, 159	v	Conglomerate in.....	112, 117, 118 A	xvi
110 gold loc. <i>See</i> Ferguson mine.			461, 462 iron locs., near		
111 gold loc. <i>See</i> Kelley location.			STEEP-ROCK LAKE.		
113, 115 gold locs. <i>See</i> Isabella mine.			Iron pyrites in	173 A	xvi
114, 116 gold locs. <i>See</i> Golden Star mine.			521, iron loc., ANIMIKIE RANGE,		
198 gold loc., ISLAND FALLS,			TH. B. D.....	161 A	xv
SEINE RIVER.			Alabama, U.S.		
Notes on, by Bow.....	93, 94	viii	Iron industry in, 1891.....	127	ii
199 gold loc., RESERVE ISLAND,			ore in, cost of producing... ..	10	i
SEINE RIVER.				400	R C
Notes on, by Coleman.....	74	vi	lake, MICHIPICOTEN DIV.	293 A	xiv
200, 278 gold locs., ISLAND FALLS,			Alabastine.		
SEINE RIVER.			<i>See also</i> Gypsum, and Paris, Ont.		
Notes on, 1903.	71, 72 A	xiii	Description of.....	196, 197	iii
1904.....	57 A	xiv	Factories for working	254	ii
Afterwards, Minto mine, <i>which see.</i>			Manufacture of.....	121	R C
206 gold loc. <i>See</i> Little Master mine.			Statistics.....	114	i
207, 208 gold locs., near MUD LAKE,			1892.....	10	ii
R. R. D.....	68 A	xiii	1893.....	10	iii
216, 217 gold locs. <i>See</i> Otisse Mining Co.			1902.....	38	xii
219, 220 gold locs. <i>See</i> Urso Major mine.			Uses of.....	121	R C
282 gold loc. <i>See</i> Sunbeam mine.				114	i
283 gold loc. <i>See</i> Railroader's Gold Mg. Co.				281	v
298, 299 gold locs. <i>See</i> Roy Gold Mg. Co.			Co.		
303 gold loc. <i>See</i> Duluth Mining Co.			Contract of, with Adamant Mfg. Co.....	279	vi
325 gold loc. <i>See</i> Jack Lake mine.			Evidence <i>re</i> , before Royal Com..	121	R C
383 iron loc. <i>See</i> Argenteuil Mining Co.			Factory of, at Paris, Ont.....	38	xii
			Government drill used by	28 A	xv
			Gypsum mining by	243	i
				253	ii
				197-199	iii
			Gypsum treated by, value of, 1905	24 A	xv
			Notes on, 1890.....	113, 114	i
			Operating, 1906.....	25 A	xvi
			Products of.....	21 A	xiii
			Alais, FRANCE.		
			Mining school at.....	498	R C
			Pyrites near	192 A	xvi
			Alaska, U.S.		
			Gold in. <i>See</i> Treadwell gold mine.		
			Platinum in.....	142	vii
			Treadwell gold mine. <i>See</i> Treadwell gold mine.		

	Page.	Vol.
Albany factory. See Fort Albany.		
river, JAMES BAY.		
Coal on, bituminous.....	123	iv
lignite	125	iv
Distance from mouth of, to Spanish river.....	192	v
Fossils on, marine.....	50	R C
Iron ore on.....	23	R C
hematite.....	314	xii
Jasper pebbles on.....	314	xii
Length of.....	103	iv
Mouth of, soil and climate.....	107	iv
suitability for harbour,		
notes by Low.....	129	iv
Minor ref. to....	201	v
Navigation on	103	iv
Notes on, by Gibson	111	iv
geological.....	111, 112	B xiii
Pine on, Banksian	120	iv
Portages on.....	105	iv
Rocks on and near, limestone....	93	v
Niagara....	44	R C
Huronian.....	18	R C
Water-power on	252	vii
Albany river, MISSINAIBI RIVER,		
ALG.....	195	viii
Albee, O.W.	80	A xv
Albermarle tp., BRUCE CO.		
Cement works in. See Colonial		
Portland Cement Co.		
Medina and Clinton formations in	35	B xiii
Albert co., N.B.		
Albertite in.....	219	vi
Mining Co.		
Capital and date of charter.....	29	A xvi
"Alberta" S S.	106-112	v
Albertite.		
New Brunswick	161	vi
analysis	166	vi
Notes by Goodwin	219	vi
Albion tp., PEEL CO.,		
Brickyard in. See Bolton.		
Limestone in	95	B xiii
Terrace in. See Mono Mills.		
Albite (PERISTERITE).		
Apatite districts	442	R C
Bathurst and Burleigh tps.....	190	ii
Analysis.....	194	ii
.....	206	ix
Definition of	528	R C
Hardness and specific gravity of	202	vi
Notes on, by Goodwin	225	vi
Occurrences	193	ix
Alborg kilns,		
For cement, notes on.....	129, 130	A xiv
Aldborough tp., ELGIN CO.		
Natural gas in	29	v
Oil in, boring for	5	v
.....	19, 21	vi
Alder.		
Abitibi dist.....	189, 193	viii
.....	205, 252	A xiv
covered with blight	129	A xiii
Black river	185	xii
Mattagami valley	189, 190	A xiv
.....	140	A xv
Shebandowan Lake region.....	205	v

	Page.	Vol.
Alder.—Con.		
Seine river.....	74	vi
Wabigoon lake, near.....	171	B vii
black		
Black river	185	xii
Eby tp.....	176	179 xii
Mississagi river	161	xii
green		
Mattagami valley	150	A xv
Michipicoten div.....	296	A xiv
Moose River basin.....	176	A xiii
mountain		
Abitibi dist.....	126	A xiii
white or hoary		
Abitibi dist.....	214, 242	A xiv
Michipicoten div.....	296	A xiv
Moose River basin.....	176	A xiii
blight.		
Abitibi dist	129	A xvi
Street Natural Gas Co.		
Capital and date of charter	29	A xvi
Aldehyde.		
Composition of	33	v
Alemtejo prov., PORTUGAL		
Pyrites deposits in	192	A xvi
"Alert"	131	iv
Alexander, Sir William	22	i
Alexandra Oil and Development Co.		
Exhibits of, at Pan-American		
Exhibition	25	A xv
Alexandria, LOCHIEL TP, GLENGARRY		
CO.		
Limestone at, Cambro-Silurian,		
quarried.....	46	B xiii
"Alfenide."		
Manufacture of, notes on	160	ii
Alfred, ALFRED TP., PRESCOTT CO.		
Peat plant at.....	25	A xiv
Limestone in, quarried	99	B xiii
Trenton	98	B xiii
Algæ.		
Ottawa (near)	225	x
Alger, General	198	R C
.....	97	vi
Algoma Central Hudson Bay Ry.,		
Brick clays on.....	96	xi
Clay used by, analysis of	27	B xv
Dock of, Michipicoten harbour..	127	x
Land grant to, effect of.....	70	xi
.....	62	xii
Origin of	91	xi
Stone producing	28	xii
Coal Mg. Co.		
Capital and date of charter.....	7	vi
.....	7	vii
Commercial Co. See Com-		
mercial Co. of Algoma.		
Consolidated Silver Mines Co.		
Capital and date of charter	5	xii
Copper Mg. Co.		
Capital and date of charter	7	vi
.....	7	vii
Custom Smelting and Refin-		
ing Co.		
Capital and date of charter.....	27	A xvi
dist.		
Explorations in :		
eastern boundary, rep. by Parks.		
.....	174-196	viii

	Page.	Vol.		Page.	Vol.
Algoma dist.—Con.			Algona tp., RENFREW CO.		
Explorations in.— <i>Con.</i>			Corundum belt in	205, 224	viii
northern portion, rep. by J. M.			Utica in. <i>See</i> Castile.		
Bell	135-198	A xiii	Algonkian formation (MARQUETTE		
southeast portion, rep. by			SERIES.)		
Graton	157-172	xii	Michigan, U.S., notes by Coleman.	151	ix
<i>See also</i> reports on Sudbury dist.,			Similar to Huronian of Canada..	162	x
Michipicoten div., Moose River			Algonquin beach		
basin, etc.			Theford, near	156	xii
Iron ores in, paper by Miller.	314-317	xii	Algonquin Gold Mining and Devel-		
Limestone in, notes by Miller...	29	B xiii	opment Co.		
Map of northern portion	with A	xiii	Capital and date of charter	7	vii
Mining lands in, statistics of sales			National park, NIP.		
and leases, 1891	7, 8	i	Waterfalls in	252	vii
1892	7	ii	Alice A. gold mine, LITTLE TURTLE		
1893	5	iii	RIVER, R. R. D.		
1894	10	iv	Minor ref. to	75	vii
1895	9	v	Notes on, 1897	129	vii
1896	10	vi	1898	46, 80, 274	viii
1897	14, 15	vii	1899	75	ix
1898	10	viii	Operations suspended, 1900	84	x
1899	11	ix	Rocks in	150	ix
1900	10	x	felsite schists.	82, 263	viii
1901	12	xi	Alkali.		
1902	10	xii	For clarifying mercury plates	241	vi
1903	36	A xiii	For sulphite pulp	91	xi
1904	23	A xiv	Iron pyrites for	256	v
1905	24	A xv	Manufacture of, at Sault Ste.		
1906	26	A xvi	Marie	65-68	x
Population of unorganized por-				66	xi
tion, 1891	134	iv	Allan, A.	78	x
Gold Mining and Reduction			F. B.	56, 61	iii
Co.			F. G. B.	109	ix
Capital and date of charter	7	vii		136	A xiv
Mills, ALG.			Hon. George W.		
Copper near	404	R C	Iron mining by, N. Crosby tp.		
Granite north of	69	i		44, 50, 54	ii
Iron prospecting at	25	vii	Sir Hugh	95	R C
Slate near	73	i	J.	115	ix
for roofing	93	i	J. A.	275	v
Mineral Land Co.			(<i>See also</i> Calabogie Mg. Co.)		
Capital and date of charter	7	vii	J. G.		
Mining Co.			Gold mining by, Michipicoten		
Claims held by, list of	96	xii	div.	115	ix
Algoma-Nipissing line. <i>See</i> Nip-			Graphite mining by. <i>See</i> Allan-		
issing-Algoma line.			hurst graphite mine.		
Algoma Power Co.			John R. <i>See</i> Cameron Island		
Work by, at High Falls	67	A xv	Gold Mg. Co.	68	viii
	68	A xvi	R. J.	102	vii
Queen Mg. Co.			W. A.		
Capital and date of charter	11	xi	Evidence by, before Royal		
Sands			Com.	150, 178, 424	R C
Description of	53	i	Mica mining by, N. Burgess tp..	277	v
and distribution.	51	R C	Owner, Pike Lake mica mine.	132	x
Named by Bell	4	R C		287	xi
silver mine, MACGREGOR TP.,			West Silver Glance mine.	203	R C
TH. B. D.	149	ix	W. G.		
Steel Co.			Gold prospecting by, Michipi-		
Accidents to employees of	29	A xv	coten div.	102, 197	vii
	32, 35	A xvi	Gold Reefs Co.		
Iron produced by, for steel rails,	17	A xvi	Capital and date of charter	9	ix
Minor ref. to	62	xi	Allanhurst graphite mine, DEN-		
Officers of	98	xi	BIGH TP., ADDINGTON CO.		
Output, 1904	13, 14	A xiv	Commenced operations	27	xii
Plant of, description	22, 23	xii	Operating, 1902	132	xii
Tube Works			1903	12	A xiii
Minor ref. to	62	xi	Allanite		
Notes on, by Willmott.	99	xi	Cerium in	196	ix
			Hollow lake, S. Muskoka river..	193	ii

	Page.	Vol.		Page.	Vol.
<i>Amelanchier canadensis</i> . See Service berry.			Ami, Dr. H. M.		
American and Canadian Gold Mg. Co.			Acknowledgments to	215, 224	x
Work by, Little Turtle river	129	vii	Borings examined by:		
	46, 81	viii	Comber well.	43 B	xiii
Cobalt Mines.			Ottawa clay.	30, 31 B	xv
Capital and date of charter.	29 A	xvi	Peleé island.	117 A	xiv
Iron Works. (JONES AND LAUGHLINS.)			Fossils determined by, Manitoulin island.	84 B	xiii
Labour employed by, statistics. . . .	370	R C	Notes by, on Saxicava sand. . . .	32 B	xv
Output of, 1893	119	ii	Ref. to surveys by, in Carleton co.	37 B	xiii
Madoc Mg. Co.			Amianthus. See Asbestos.		
See also Jarman pyrites mine.			Ammonium sulphate.		
Nichols Chemical Co.			Lime used in making.	3 B	xiii
Accidents to employees of	29 A	xv	Price of: import of, from Germany	169	R C
	33, 35 A	xvi	Ammunition.		
Capital and date of charter.	25 A	xiv	Arsenic for hardening	114, 117	xi
Operating, 1904	26 A	xv	Nickel for.	146, 147, 153	ii
1905	19 A	xiv	notes by Levat.	160	ii
1906	20 A	xv	<i>Ampelis cedrorum.</i> See Waxwing, cedar		
Bannockburn mine	21 A	xvi	Amphibole.		
Nickel Works, Ltd.	154 A	xvi	Hardness and specific gravity of. . .	202	vi
Included in International Nickel Co	140 C	xiv	Notes on, by Goodwin.	227	vi
Oil Co.			Amphibolite.		
Oil producing.	24	vi	See also Hornblende.		
Silver King Mg. Co.			Animikie iron range.	161 A	xv
Capital and date of charter.	29 A	xvi	Appalachian mts.	242	viii
Silver mine, COBALT, NIP.			<i>Amphigenia elongata.</i>		
Prod'cing, 1905	7 A	xv	Kwataboahagan river.	186 A	xiii
Smelting and Refining Co.			Port Colborne, near	35	xi
Cobalt ores purchased by.	11 A	xvi	Ami and Folger mica mine, LOUGH-BORO TP., FRONTENAC CO.		
Wire and Steel Co.			Notes on, 1892	250	ii
Iron mining by, Atikokan range. . . .	112	x	Amygdaloids.		
Ames, Mr.	59 A	xvi	Definition of.	528	R C
Amethyst			L. Superior copper dist.	84-87	iii
Annaberg, Saxony	61 B	xiv	caves in, photo.	152, 153	viii
Cape Blomidon, N. S.	223	vi	Michigan mines	144	ix
Exhibited at World's Fair.	187	ii	notes by Coleman	149	vii
Lake Superior	61	R C		171	viii
	193	ii	Pigeon River dist.	146, 147	ix
Port Arthur vicinity	192	R C	Amyot station, MICHIPICOTEN DIV., ALG	3 Bull.	iii
Notes on, by Miller	193	ix	Amyott?	102	viii
See also Amethyst quartz.			Amytis (MEDIAN PRINCESS)	166	i
harbour, MACGREGOR TP., TH. B. D.			Analcite.		
Amethyst at	193	ix	L. Superior, N. shore	193	ii
Iron ore from, at World's Fair. . . .	79	ii		193	ix
quartz.			Heron bay.	172, 173	viii
Bear bay, L. of the Woods.	99	vi	basalt,		
Thunder bay, L. Superior.	131	vi	Colorado	190	ix
Amey, C. I.			The Basin, analysis	173	viii
Gold prospecting by, near Wawa lake.	102, 184, 187, 195, 197	vii	=tinguaite. See Heronite.		
George F.	48-50	x			
H.	90 A	xvi			
Amherst island, L. ONTARIO.					
Trenton formation on	41	R C			
	44 B	xiii			
fossils in.	27 B	xiii			
Amherstburg, MALDEN TP., ESSEX CO.					
Limestone in, analysis.	42 B	xiii			
for locks at Soo	25 B	xiii			
sugar factories	3 B	xiii			
quarrying.	101	i			
Quarry Co.	28	xii			

ANALYSES.

Actinolite.		
Average	90	iii
	192	ix
Analcite.		
Heron bay.	173	viii
Andesine.		
North Sherbrooke tp.	193	ix
Anorthosites.		
Seine River dist.	100	v
Various.	226, 227	viii
Anthroxolite.		
See below, Fossil fuels.		

	Page.	Vol.
Analyses.—Con.		
Argentite.		
Thunder bay	194	ix
Arsenic-nickel ores.		
<i>See below, Cobalt nickel ores.</i>		
Asbestos.		
Average	90	iii
Various	97	iii
Bessemer matte.	106	viii
Bismuth.		
Cobalt, Ont.	22 B	xiv
Blueite.		
Sudbury dist.	168	ii
	282	xii
Gertrude mine	160 C	xiv
Breccia.		
Coleman tp.	48 B	xiv
Onaping river.	86	i
Calcite.		
Cross lake, Coleman tp.	23 B	xiv
Cancrinite=syenite.		
Siksjoberg, Sweden	173	viii
Celestite.	196	ix
Chert.		
Michipicoten div.	309, 310 A	xiv
Chloanthite.		
Cobalt dist.	98 A	xiii
	19 B	xiv
Chrysotile.	90	iii
Clay.		
Don valley	127	iii
Garafraxa tp.	16	x
Haileybury, near	33 B	xiv
Lake Superior, Alg.	96	xi
Marlbank	16	x
Pure	116	iii
Standard for cement.	124, 183 A	xiv
ThurLOW tp	34	xii
Toronto	128	iii
United States, various	120	iii
Ohio	119	iii
Various	160 A	xiii
Williams lake	108	ix
Clay, boulder		
Lac du Bonnet, Man.	92 B	xv
Clay, Erie		
Alvinstone	74 B	xv
Beaverton	87 B	xv
Picton	95 B	xv
Stratford	91, 93 B	xv
Thedford	75 B	xv
Various	14, 15 B	xv
Waterloo	103 B	xv
Clay, fire		
Toronto, near	54	R C
Clay for pipes.		
Hamilton	129	iii
Mimico	128	iii
Clay, Leda	31 B	xv
Clay, red-top		
Average	17 B	xv
Conestogo	104 B	xv
Clay, Saugeen		
Average	23, 26,	27 B
Casselman	97 B	xv
Haileybury, near	32 B	xiv
Pembroke	96 B	xv
Sudbury, near	26,	27 B

	Page.	Vol.
Analyses.—Con.		
Clinochlore.		
Bagot tp.	196	ix
Coal.		
<i>See below, Fossil fuels.</i>		
Cobalt-nickel ores.		
<i>See also below, Nickel ores.</i>		
Coleman tp	21 B	xiv
Rabbit lake	29 B	xiv
Sudbury dist.	98-101 A	xiii
Cobaltite.		
Cobalt, Ont.	23 B	xiv
Columbite.		
Lyndoch tp.	236	vii
Concentrates.		
Deloro gold mine	106	xi
Coracite.		
Mamainse	197	ix
Corundum.		
Paper by Goodwin	238, 239	vii
Diabase.		
Animikie iron range	171 A	xv
Sudbury dist	126 C	xiv
Diopside.		
Madawaska river	197	ix
Diorite.		
Port Coldwell	148 B	vii
Dolerite.		
Abitibi dist.	117 A	xiii
Dolomite.		
<i>See below, Limestone.</i>		
Enamels.		
Venetian	120	xi
Feldspar.		
Bedford tp.	26	x
	81 A	xiv
Port Coldwell	147 B	vii
Folgerite.		
Worthington nickel mine ...	167, 168	ii
Fossil fuels.		
	184	i
	194	xii
Anthracite	4, 5 Bull.	ii
Anthraxolite	162, 163	vi
Balfour tp.	194	ix
	96 C	xiv
Kingston dist	194	ix
Carbonaceous minerals	166	vi
Coals, various	175 A	xiii
Lignite, Abitibi river	188	viii
Missinaibi river	127	iv
Moose river	174 A	xiii
Galena.		
Cross lake, Timagami dist	101 A	xiii
Loughborough tp	94 A	xiii
Garnierite.		
New Caledonia	148 C	xiv
Gersdorffite.		
Denison tp	233	i
Gneiss.		
Hastings corundum dist.	227	viii
Gossans.	186 A	xvi
Granite.		
L. of the Woods, porphyritic ...	122	vi
Sudbury dist	124 C	xiv
Graphite.		
Brougham tp	37	v
	24	x
Gypsum.		
Moose river	159 A	xiii

		Page.	Vol.			Page.	Vol.
Analyses.—Con.				Analyses.—Con.			
				Limestone.			
Hastingsite.				Addington co., Napanee	75 B	xiii	
Dungannon tp.....	199	ix		Sheffield tp	28 B	xiii	
Heronite.				Algoma dist., Geneva lake.....	30	xi	
Heron bay, L. Superior	188	ix			29 B	xiii	
Hessite.				Manitoulin island.....	75 B	xiii	
Gold creek, L. of the Woods....	105	v		Panache lake.....	83	i	
	199	ix			30 B	xiii	
Iron ores.				Rutherford tp	31 B	xiii	
Animikie range.....	163 A	xv		St. Joseph island..	79 B	xiii	
Atikokan range	71	ii		Animikie iron range.....	163 A	xv	
Garland mine	75	ii		Brant co., Paris	147	xii	
Bastard tp.....	35	ii			15,	34 B	xiii
Bathurst tp.....	81	ii		Carleton co., Gloucester tp.....	38 B	xiii	
Belmont tp.....	59, 60	ii		Nepean tp.....	15 B	xiii	
Black Sturgeon lake.....	313	xii		Frontenac co.....	44,	45 B	xiii
Cardiff tp.....	62	ii		Essex co., Anderdon tp.	41,	42 B	xiii
Darling tp	141	R C		Pelee island.....	43 B	xiii	
Galway tp.....	131	R C		Haileybury	87 B	xiii	
Glamorgan tp	62	ii		Haldimand co.....	54-56,	118 B	xiii
Greenwater lake	81	v		Hagersville	145	xii	
Hastings-Frontenac dist.....	54,	55	ii		118 B	xiii	
Hull. Que., (magnetite)	32	ii		Springvale.	144	xii	
Hutton ranges (magnetic).....	218 A	xiii		Halton co.....	58 B	xiii	
Hutton tp.....	16,	73 A	xvi	Hastings co.....	61, 62,	65 B	xiii
Kesagami lake.....	152 A	xiii		Belleville.....	19 B	xiii	
Kingston-Pembroke R'y dist.....	130-132	R C		ThurLOW tp	34	xii	
Loon Lake dist	259 A	xiv		Huron co.....	67,	68 B	xiii
Matawin range.....	83	v		Lambton co., Stony pt.....	155	xii	
Mattagami valley	77	ii		Thedford	155	xii	
	126	iv			69 B	xiii	
	154 A	xiii		Lanark co.....	70,	71 B	xiii
Mayo tp	97 A	xv		Leeds co., Brockville.....	73	xiii	
Mesabi range	101	ix		Lincoln co., Grimsby tp	75 B	xiii	
Michipicoten div... 320, 322, 327-338 A	xiv			Lower Helderberg formation....	152	xii	
Batchawana bay, N. of	163	ix		New Brunswick, St. John.....	11 B	xiii	
Frances mine	329 A	xiv		Norfolk co., Woodhouse tp	88 B	xiii	
Goulais bay.....	139	xi		Northumberland co., Hamilton			
Gros Cap	54,	55	ii	tp.	13 B	xiii	
	145	viii		Ontario co., Rama tp.....	91 B	xiii	
Helen mine.....	155	ix		Oxford co., Beachville	148,	149	xii
	192, 193	x			92 B	xiii	
	94,	170	xi	Parry Sd. dist., Georgian bay ...	92 B	xiii	
	60	xiv		Perth co., St. Marys	151	xii	
Paint lake	324 A	xiv			96 B	xiii	
Pyrrhotite lake.....	305,	332 A	xiv	Peterborough co.....	98 B	xiii	
Monmouth tp.....	62	ii		Prince Edward co., Picton.....	100 B	xiii	
Nipigon Lake dist.....	213	x		Renfrew co.....	105,	106 B	xiii
	127 A	xvi		Russell co., Rockland	21	x	
Still lake.....	145 A	xvi		Simcoe co., Tay tp.....	110 B	xiii	
Whitefish lake	144 A	xvi		Standard for cement.....	183 A	xiv	
North Crosby tp.....	44,	50	ii	Steep-rock lake	307	xi	
Port Henry (concentrates)....	350	R C			100 B	xiii	
Radnor Forges, Que. (limonite)	26	ii		United States, for glass-making..	6 B	xiii	
Snowdon tp	131	R C		various	13,	15 B	xiii
	80,	81	ii	Rosendale, N. Y..	34	xi	
South Sherbrooke tp.....	47,	48	ii		15 B	xiii	
	274	v		Various localities.....	27 B	xiii	
Timagami island	169	x		Victoria co.....	113,	114 B	xiii
Various localities.....	201,	202	ix	Welland co., Humberstone tp... 34	xi		
Vermilion range	75	ii			13,	118 B	xiii
Laurvikite.				Thorold	15 B	xiii	
Byskoven, Norway.....	211	xi		Wellington co.....	122 B	xiii	
Lepidomelane.				Wentworth co., Ancaster tp.....	142	xii	
Lime.					125 B	xiii	
For Eddystone lighthouse, Eng..	107	i		Rymal (near) ..	126 B	xiii	
Milton	15 A	xiii		Lithographic stone.			
Nasagawaya tp.....	59 B	xiii		Crow lake, Marmora tp.....	61 B	xiii	
Springvale	54 B	xiii		Various.....	181-183	ii	

	Page.	Vol.
Analyses.—Con.		
Loganite.		
North Burgess tp.....	201	ix
Lollingite.		
Galway tp.....	201	ix
Marbles. (<i>See also</i> Limestone)	65 B	xiii
Marl.		
Addington co., Sheffield tp.....	128 B	xiii
Carleton co.....	39 B	xiii
Emerald lake, Nip.....	87 B	xiii
Grey co.....	51 B	xiii
Holland tp.....	16	x
Hastings co., Marlbank.....	16	x
Lanark co., Lavant tp.....	71 B	xiii
Montreal river, N. of northern arm.....	209 A	xiv
Pikiti gouching river.....	112 B	xiii
Standard for cement.....	183 A	xiv
Victoria co., Manila.....	114 B	xiii
Wellington co.....	122 B	xiii
Garafraxa tp.....	16	x
Meteorite.		
Welland.....	203	ix
Mica.		
<i>See also below</i> , Phlogopite.		
Different varieties.....	83 A	xiv
Mispickel.		
Graham tp.....	205	ix
Hastings co.....	101	xi
Timagami (near).....	23 B	xiv
Molybdenite.		
Haliburton dist.....	46	xi
Moss litter.		
<i>See below</i> Peat meal.		
Natural gas.		
East Tilbury tp.....	99 A	xvi
Nepheline=syenite.		
Blue mts.....	207	viii
Niccolite.		
Cobalt, Ont.....	19 B	xiv
Nickel.		
Commercial.....	223	ix
Nickel matte.		
Norway.....	154 C	xiv
Sudbury dist.....	380	R C
	154	ii
	152 C	xiv
Nickel ores.		
Canadian compared with Norwegian.....	283	xii
James lake (near).....	180	x
New Caledonia.....	151	ii
Net lake.....	180	x
Refined at Smethwick, Eng.....	114	viii
Sudbury dist.....	88	i
	208	ix
Norite.		
Sudbury dist.....	112, 116, 117,	120 C
Ochre, Yellow		
Boyer lake.....	169	xi
Paragrene.	116	xi
Pargasite.		
Madawaska river.....	206	ix
Paris green.	113	xi
Peat.		
Abitibi dist.....	209 A	xiv
	128 A	xv
As a fuel.....	183	i
	194	xii

	Page.	Vol.
Analyses.—Con.		
Peat.—Con.		
General.....	202, 203	xii
Matta ami valley.....	128 A	xv
Montreal, east of.....	201	ii
Treated by Dickson process.....	201	i
Peat gas.	230	xii
Peat meal.	191	vi
Pentlandite.		
Sudbury ores.....	159 C	xiv
Peristerite.		
Bathurst tp.....	206	ix
Perthite.	206	ix
Phlogopite.		
North Burgess tp.....	207	ix
Polydymite.		
Sudbury ores.....	159 C	xiv
Prehnite.	207	ix
Rensselaerite.		
Charleston lake.....	208	ix
Rocks.		
Animikie iron range.....	171 A	xv
Corundum-bearing, paper by Goodwin.....	238, 239	vii
Cross lake, Coleman tp.....	50 B	xiv
Nickel-bearing eruptive, Sudbury dist.....	212, 213 A	xiii
Salt.		
Seaforth.....	208	ix
Serpentine.		
Pigeon lake, Montreal river.....	82 B	xiii
Shale.		
Beamsville.....	79 B	xv
Various.....	8 B	xv
Shale, bituminous		
Kettle pt.....	156	xii
Shale, Hamilton		
Nodule in, from Thedford.....	154	xii
Shale, Hudson River		
Toronto.....	114 B	xv
Various.....	7 B	xv
Shale, Medina		
Brampton.....	89 B	xv
Fruitland.....	105 B	xv
Port Credit.....	90 B	xv
Various.....	8 B	xv
Silver Ore.		
Cobalt, Ont. (specimen).....	17 B	xiv
Slate.		
Cobalt, Ont.....	48 B	xiv
Paris, Ont.....	34 B	xiii
Smaltite.		
Gunnison co., Col.....	71 B	xiv
Soils.		
<i>See also above</i> , Clays.		
Abitibi dist.....	244, 246, 247 A	xiv
Mattagami valley.....	153, 154 A	xv
Sperrylite.		
Sudbury, dist.....	162 C	xiv
Vermilion mine.....	209	ix
Typical.....	181	R C
Strontianite.		
Nepean tp.....	210	ix
Syenites.		
Abitibi dist.....	118, 119 A	xiii
L. Superior, north shore.....	211	xi
Talc.		
Grimsthorpe tp.....	101	iii
Typical.....	210	ix

	Page.	Vol.		Page.	Vol.
Analyses.—Con.			Andersson, Abjorn	199	xii
Tetrahedrite.			Andesine.		
Cobalt, Ont.	22 B	xvi	N. Sherbrooke tp., analysis	193	ix
Trap dike.			Andesite.		
Seeley Bay, near.....	231	vii	Definition of.....	235	vii
Tuff.			Anderson, H.	102	viii
Whitson lake, near.....	132 C	xiv	Andradite,		
Tuff, vitrophyre			Dungannon, Tudor tp., analysis.	193	ix
Onaping River dist.....	132 C	xiv	Andre, George	102	vii
Wad.	211	ix		140	x
Water.				73	xi
Leamington.....	58	i		65	xii
Mineral, various.....	204, 205	ix		48	xiii
Raleigh tp.	57	i	(Indian)	202	vii
St. Thomas.....	60	i	J.	48 A	xiii
Weed=killers.			lake, MICHIPICOTEN DIV., ALG.		
New Zealand	115	xi	Rocks near	158	ix
Whartonite.			Andrews, C.	102	vii
Bleazard mine	170	ii	Francis		
Whitebloom.			Evidence by, concerning :—		
Coleman tp.....	18 B	xiv	rail freights.....	241	R C
Wilsonite.			Sudbury ores.....	104, 426	R C
Bathurst tp.....	211	ix	tariffs	232	R C
<i>Anaphalis margaritacea,</i>			timber speculators	311	R C
Mattagami valley	150 B	xv	O. L.	102	vii
<i>Anas obscura.</i> See Duck, black			R.	106	x
Ancaster, BRANT CO.				148	xi
Artesian well, near.....	62	i	T.	23	viii
Limestone near, Niagara....	141, 142	xii	Andrew bay, L. OF THE WOODS, R.R.D.		
notes	123 B	xiii	Copper on, mining.....	99	vi
quarries	125 B	xiii	native.....	105	v
Salt well near, analysis.....	204	ix	Gold mining on, 1896	6 Bull.	i
Anchor Nail and Tack Works.			1897	38, 39	vii
Labour employed by, statistics..	370	R C	Photo of part of	64, 66	vi
<i>Ancyrocrinus bulb-sus,</i>			Andrie, G. and Mrs. G.	115	ix
Stony pt., L. Huron.....	155	xii	Andromeda.		
Andel, F. Van.			On peat bogs.....	213	ii
Pottery works of, Cornwall.....	29	xii		139	iii
Anderdon tp., ESSEX CO.			<i>polifolia.</i>		
Limestone in, Corniferous, paper			Abitibi Lake dist	241 A	xiv
by Nattress ...	123-127	xi	Mattagami valley	150 A	xv
quarrying	101	i	Anemone alba.		
notes by Nattress.	41 B	xiii	Moose River basin	177 A	xiii
photo,	32, 33 B	xiii	<i>nemorosa</i>		
Oil in, boring for.....	42 B	xiii	Abitibi Lake dist.	241 A	xiv
Anderson, August	42, 43, 50	x	Mattagami valley	150 A	xv
	47, 48	xii	Anemone parviflora.		
Carl	267	xi	Abitibi Lake dist	241 A	xiv
	116	xii	<i>pennsylvanica.</i>		
Charles John	29	ix	Abitibi Lake dist.....	241 A	xiv
Charles P.	91	viii	Mattagami valley	150 A	xv
	105	x	Angelica atropurpurea.		
Frank	43, 50	x	Abitibi dist.....	241 A	xiv
H.			Angelina co., TEXAS.		
Gold mining by, Vermilion river.	152	x	Iron ore in	101	ii
James	105	vi	Angell. See Webster and Angell.		
Oscar	31, 32	ix	Angel's Night-cap, IRON LAKE.		
William			MICHIPICOTEN DIV.		
Brick-making by, Crediton	71 B	xv	Rocks at	304 A	xiv
Anderson co., TEXAS.			Angers, FRANCE.		
Iron ore in	101	ii	Technical high-school at.....	494	R C
tp., ALG.			Anglesea tp., ADDINGTON CO.		
Copper mining in. See Ganson mine.			Arsenic in	105	xi
Taylor mine.			See also Kennefic claim.		
Iron ore in, character	315	xiii	Rocks in, notes by Miller... ..	200-202	xi
mining. See Williams			Anglesite (LEAD VITRIOL).		
mine.			Determination of.....	209	vi
			Hardness and specific gravity of.	202	vi

	Page.	Vol.		Page.	Vol.
Anglian Mg. and Finance Co.			Animikie formation.—Con.		
Work by, 1896.....	50	vi	Port Arthur region.....	191	R C
Angling island, RAINY LAKE, R.R.D.				204	v
Quartz-diorite on.....	78	vi		56 B	xiv
Anglo-American Copper Mg. Co.			Animikie iron range....	163-167 A	xv
Capital and date of charter	9	ix	Blende lake.....	30	R C
Work by, Parry sound	121	x	composition.....	101 C	xiv
Anglo-American Iron Co.			gold in	39	iv
Coe Hill Mg. Co. controlled by..	106	ii	Gunflint lake	76	ii
Formation of	170 C	xiv	Iron lake.....	169 A	xv
Included in International Nickel			Kaministiquia river.....	133	vii
Co.	21	xi	Kakabeka falls.....	129	xi
	140, 172 C	xiv	Loon Lake region.....	256, 273 A	xiv
Owning St. Charles iron mine...	128	x	iron-bearing	257 A	xiv
	261	xi	Notes by McKellar.....	237-239	iv
Anglo-Canadian Gold Estates.			Roland	225	i
See also Reliance gold mine.			Silver-bearing	33-36	R C
Capital and date of charter.....	10	x	Silver mt.....	96	viii
Licence to, terms of.....	40	x	Thunder bay, notes by Cole-		
Work by, 1900	40, 41	x	man.....	149	ix
1901.....			cape, thickness.....	124	ix
16, 17, 150, 240, 241, 256		xi	Upper Copper-bearing rocks..		
1902.....	15, 87	xii		133, 134	vi
La Mascotte gold mine	73	ix	Silver islet.....	105	v
Sturgeon Lake dist..	46-48	ix	Worth prospecting for copper .	148	ix
Phosphate Co.			Sudbury dist., notes by Cole-		
Evidence by, before R.C....	174, 175	R C	man.....	93, 94 C	xiv
Veins in claims of, character....	440	R C	sub-divisions. 10, 14 C		xiv
Anglo-French Nickel Syn.			Animikie Iron range.		
Cobalt ores purchased by.....	11 A	xvi	Map of.....	With Vol.	xv
Anglo-Ontario Exploration and			Photos of	43, 44 A	xiv
Gold Mining Co.			Report on, by Silver.....	156-172 A	xv
Capital and date of charter.....	7	vii	See also Loon lake, McTavish tp.		
Anglo-Saxon Gold Mining Co.			Animikite.		
Capital and date of charter.....	7	vii	Port Arthur silver dist.....	55, 58 B	xiv
Anglo-Sicilian Corporation.			Silver Islet mine	33 R C: 191, 193	ii
Sulphur industry controlled by..				193	ix
	199, 200 A	xvi	Aninchigaming lake, MICHIPICOTEN		
Angove, John	273	viii	DIV., ALG.....	191	vii
	72	ix	Anjigomi lake, ANJIGOMI RIVER, ALG.		
Angus Islets Silver Mining Co.			Character of country near.....	200 A	xv
Capital and date of charter	7	vii	Glaciation near	192, 198, 201 A	xv
Anhydrite.			Granite on	205 A	xv
Association of, with limestones			Iron formation near.....	179 A	xv
and marls	120	R C	Michipicoten schists on.....	202 A	xv
Description of.....	222	vi	river, MICHIPICOTEN RIVER,		
Hardness of; specific gravity of.	202	vi	L. SUPERIOR.....	176 A	xiv
Occurrences of.....	193	ix	Anjikoming. See Anzhukumming.		
Sperenberg, Germany.....	120	R C	Ankstrom, Charles	236, 237	v
Anikojigami lake, N. OF OTTO TP.,			John	236	v
NIP.			Ann lake, NEAR GARDEN RIVER, ALG.	123	viii
Description of, by Bolton... 182, 183		xii	Annabella Mining Co.		
Rocks on, petrographical notes..	189	xii	Exhibits of, at Buffalo	25 A	xv
Aniline dyes.			Annaberg, SAXONY.		
Arsenic used in	85, 114, 120	xi	Cobalt at	6, 51 B	xiv
	32 B	xiv	silver ores of.....	61, 62 B	xiv
Discovery of.....	33	v	Annabergite (NICKEL BLOOM),		
Anima-Nipissing Silver Mines.			Annaberg, Saxony	61, 62 B	xiv
Capital and date of charter.....	27 A	xvi	Cobalt dist.	xi, 98 A	xiii
Animikie formation.				12, 13 B	xiv
Distribution of.....	31-33	R C	Port Arthur silver dist.....	58 B	xiv
Iron ores of, notes by Coleman..			Silver islet.....	193	ix
	141, 142	xi		55 B	xiv
Mesabi iron range.....	77	ii	Annapolis, MARYLAND, U. S.		
	153	ix	Armour plate tests at.....	136	ii
	197	x		171, 172 C	xiv
Named by Sterry Hunt.....	4	R C	Annie Milling Co.		
Nipigon Lake dist.....	115 A	xvi	Exhibits of, at Buffalo	25 A	xv
Notes by Selwyn.....	66, 67	R C			

	Page.	Vol.		Page.	Vol.
Annima, Nipissing lake, TIMAGAMI REG., NIP.			Anthracite.—Con.		
Pyrrhotite on.....	53 A	xvi	Definition of	528	R C
Anorthite.			Long island, Lab. (? anthraxo- lite)	126	iv
Definition of.....	528	R C	Pennsylvania, U. S.: analysis	5 Bull. ii	
India, corundum-bearing.....	231	viii	fixed carbon in, percentage ...	166	vi
Russia, ".....	235	viii	production, 1888	525	R C
Anorthosite.			Rhode island, U. S.	163, 165	vi
Abitibi river.....	185	viii	Russia, analysis.....	166	vi
Analyses.....	227	viii	Wales, analysis	5 Bull. ii	
Bad Vermilion river (near).....	64	vi	Anthracitic carbon. See Anthraxo- lite.		
Composition of.....	234	vi	Anthraxolite.		
Georgian bay, islands in.....	181	ix	Balfour tp.....	152	vii
Hastings dist., corundum in. 206,	226	viii	124	ix	
Ottawa, analysis	226	viii	290	xii	
Parry Sound dist.....	11	R C	95 c	xiv	
Quebec prov.....	10, 11	R C	analysis	96 c	xiv
analyses	227	viii	boring for	51	x
Rawdon, analysis.....	100	v	comparison with shale of L. of the Woods	104	vi
Rainy Lake dist., petrography 91, 92		iv	Composition of, paper by Ellis, 162-166		vi
Russia, analysis.....	226	viii	Lake Superior.....	193	ii
Seine River dist.....	63	v	129	vi	
notes and analysis.....	98-102	v	Named by Ch pman	129	vi
with granite	91	vi	Notes on	194	ix
Shoal lake, E. of Rainy lake....	184	ix	Papers on, by Coleman.....	Bull. ii	
South Sherbrooke tp.	198	xi	159-161	vi	
microphoto.....	216, 217	viii	Anthropophagy.		
Tudor tp.....	198	ix	Among Indians.....	138	v
Anrep, Aleph			Anticlinal theory.		
Peat-milling machine of	199	xii	In connexion with gas		
photo. 208, 209		xii	and oil.....	115, 148-150	i
Ansbacher A. B. & Co.	122	xi	Anticline.		
Anse a la Mine. See Wright silver mine.			See also Cincinnati arch.		
Anse aux Crepes. See Pancake bay, L. Superior.			Balfour tp., in sandstone.....	97-99 c	xiv
Ansley, A.	133 A	xiv	Bluelake, Vermilion river, photo	154	x
Anson=Cartwright, R. H. M.			Chelmsford (near), photo.	98 c	xiv
Manager, Hanson Cross Lake mine	80 A	xv	Cincinnati, U. S., source of gas..	151	R C
Work by, 1905.....	40 B	xiv	French river	67	i
Anstruther tp., PETERBORO CO.			Mississagi river	165	xii
Molybdenite from.....	56	xii	Timagami dist., jaspillite belt ...	173	x
Antholite.			Anticosti island, QUE.		
Elzevir tp.	193	ix	Peat on, area of.....	198	ii
Anthony, Prof. W. A.			Antifebrin.		
Ref. to paper by, on magnetic concentrator	340	xii	Composition of	33	v
Blum Gold Mines.			Antimonial silver.		
Capital and date of charter.....	27 A	xvi	Silver islet	194	ix
Laurentian gold mine owned by.	58 A	xvi	Antimonite. See Stibnite.		
farm, CAYUGA TP., HALDIMAND co.			Antimony.		
Gypsum quarry on.....	122	R C	See also Stibnite.		
Reef gold mine. See St. An- thony Reef.			Barrie tp.....	190	ii
Anthozoa.			Canadian exports, 1881-87	244	R C
Kwataboahagan river	181 A	xiii	Canadian production, 1886-87... 243		R C
Anthracite.			1888.....	525	R C
See also Coal.			Coleman tp.....	100 A	xiii
Analysis of standard.....	184	i	12 B	xiv	
used in Waterworks, Toronto	4 Bull. ii		Fairy lake, near Echo lake	30	R C
As a fuel, compared to wood and peat.....	200	ii	Fumes of, character.....	449	R C
194, 195		xii	Garden river	30	R C
Calorific power of.....	186	i	Hints on, to prospectors.....	459	R C
166, 168		vi	Lake of the Woods.....	118	R C
Carbon in, percentage of.....	219	vi	Ores of, notes by Goodwin.....	209	vi
			United States production, 1888..	525	R C
			Value of.....	209	vi
			glance or grey. See Stibnite.		
			Antler river. See Atikokan river.		

	Page.	Vol.		Page.	Vol.
Antoine mica mine , DEVIL LAKE, BEDFORD TP., FRONTENAC CO.	103	A XV	Apatite. — <i>Con.</i>		
Antrim Iron Co.	340	R C	Kingston dist., evidence before Royal Com. 53, 167, 170, 177, 402		R C
Anvil (s).			Lanark co., Bathurst tp. 137		R C
Canadian imports of, 1881-87, 246, 249		R C	character of veins. 440		R C
lake , N. OF LADY EVELYN LAKE, NIP.			early mining. 436		R C
Cobalt on. 45	A XVI		<i>See also</i> N. Burgesstp.		
Silver on. 8, 45	A XVI		Leeds co., early mining 436		R C
Anzhekumming (OR UPPER MANI- TOU) lake , R. R. D.			Markets for. 443		R C
Description and geology of. 62-67		iv	Norway, character of deposits. 438		R C
Gold on and near 83, 84		vi	eruptive origin. 443		R C
character of deposits. 117		vi	Occurrences 194		ix
sluice for, photo 112, 113		vi	Origin of :		
<i>See also</i> Gold rock mine			Bell's views 13		R C
Manitou lake dist.			Coste's views 56		ii
Twentieth Century Mg. Co.			various views. 443		R C
Victory mine			Parry Sound dist., possibility of. 94		i
Iron ore near. 136		xi	Perth dist., evidence before R. C. 53, 167, 177, 178		R C
	309	xii	Peru, in guano beds. 441		R C
Map of district of With vol.		iv	Spain and S. Carolina 441		R C
Notes on, by Coleman. 52		v	Statistics :		
Rocks on and near. 76, 82, 86-89		iv	Canada, 1870, 1880. 209-210		R C
	85, 118	vi	1881-1887.		
conglomerate. 184		ix	209, 213, 243, 245, 443		R C
description. 153		vii	1888. 75, 525		R C
Couchiching. 47		iv	1889. 177		R C
Keewatin. 60, 70		iv	Ontario, 1891. 6		i
Route from, to L. of the Woods, 87-89		vi	1892. 7, 11		ii
Trout in. 44		iv	1893. 7, 10		iii
			1894. 11, 26-28		iv
Aosta river , PIEDMONT COMPARTMENT, ITALY			U. S., 1887. 213		R C
Asbestos in valley of 96		iii	1888. 525		R C
Apatite (PHOSPHATES)			Works for treating, Smiths Falls. 169, 179		R C
Association of, with mica. 86	A XVI		252		ii
Canadian, paper by Penrose. 436-443		R C	<i>Aphis.</i> <i>See</i> Birch, aphid		
production. <i>See below</i> ,			<i>Aphrophora</i> <i>See</i> Bugs, spittle		
Statistics.			Ap'John, Frank Joseph		
Corundum mistaken for. 243		viii	Coroner, Kenora. 238		v
Description of 528		R C		67	vi
Determination of 205, 221		vi	Notes by, on old Kenora. 171		v
Evidence <i>re</i> , before Royal Com. 68		R C	<i>Apocynum androsaemifolium.</i>		
Exhibits of, at World's Fair. 189		ii	Abitibi Lake dist. 241	A XIV	
Florida deposits depress prices. 238		i	Mattagami valley. 150	A XV	
	3	A xiii	" <i>cannabinum.</i>		
France 441		R C	Mattagami valley 151	A XV	
Frontenac co. 438-441		R C	Apollo Iron and Steel Co.		
Bedford tp. 134		R C	Output of, 1893 118		ii
Hinchinbrooke tp. 228		viii	Apophyllite.		
Loughborough tp. 149		R C	L. Superior, in copper-bearing rocks. 131		vi
evidence before Royal Com. 170, 171		R C	Spar island 194		ix
mining 168		R C	Apostel lake , W. OF STURGEON LAKE, TH. B. D.		
with pyroxene. 53		R C	Green agglomerate on. 147		xi
Grades and prices. 442		R C	Appalachian mts. , U. S.		
Hardness of. 448, 535		R C	Corundum in. 242, 247		viii
	201, 202	vi	Apples.		
	214	vii	Mentioned as growing at :		
Hastings dist., associated with			Batchawana bay 203		viii
iron and limestone. 46		ii	Goulais Bay dist. 150		viii
Huronian belt. 87, 94		i	Appleby, J. E. 102		viii
Industry of, inspector's report on:			Appleton, E. 96		x
1891. 238-240		i	Apsley , ANSTRUTHER TP., PETERBOR- OUGH CO.		
1892. 250-252		ii	Rocks near. 213, 214		viii
1893. 194, 195		iii	Aptite		
1904, reviving 86	A XIV		Jarvis island, L. Superior 180		ix

	Page.	Vol.		Page.	Vol.
Apunesigacen lake, PART OF STEEP-ROCK LAKE, R. R. D.			Argentine Peat Syndicate.		
Notes on, by Blue	144, 145	v	Capital and date of charter	11	xi
Aqueous rocks.			Republic.		
Description of, by Miller...	235, 236	vi	Nickel coinage in	161	ii
Formation of, mode.....	229	vi	Argentite (SILVER GLANCE).		
Aragonite.			Cobalt dist.....	11, 101	A xiii
Annaberg, Saxony	61	B xiv	character	13	B xiv
L. Superior.....	193	ii	formula.....	12	B xiv
Mode of occurrence.....	194	ix	Composition and description....	528	R C
<i>Aralia hispida.</i>				204, 207	vi
Mattagami valley.....	150	A xv	Hardness of.....	201	vi
" <i>nudicautio.</i>			Hints on, to prospectors.....	453	R C
Abitibi dist....	241	A xiv	Lake Superior:		
Mattagami valley	150	A xv	Caldwell pt.....	149	ix
Arastra.			Port Arthur dist.	191	ii
Description of.....	528	R C	Rabbit mt.....	57, 58	B xiv
Arbor Oil Co.			Silver islet.....	86	v
Capital and date of charter	31	A xvi		52-55	B xiv
Arbour, William	41	A xiii	Spar island	56	B xiv
Archaean system.			Mistaken for sylvanite.....	77	v
Area in Canada.....	193	v	Occurrences	194	ix
	160	vii	Saxony	61	B xiv
Definition of.....	528	R C	Schneeburg	74	B xiv
Divisions of.....	2, 3	R C	Specific gravity of.....	201	v
Distribution of.....	6-22	R C	Mg. and Smelting Co.		
Eastern Canada, notes by Vennor.....	41-44	ii	Capital and date of charter	27	A xvi
Iron ore deposits of, notes by			Owning East Silver Mt. mine...	83	vii
Coleman	140, 141	xi	Argento pyrite.		
Occurrences of ores in, views of			Joachimsthal, Bohemia	61	B xiv
Coste.....	56-58	ii	Argillites.		
Ontario, Bell's views.....	245	v	Huronian areas.....	73	i
northern, notes by Gib-			Timagami lake, as ornamental		
son	104	iv	stone.....	93	i
Nipigon Lake dist., divisions ...	110	A xvi	Argyll gold mine, CLEAR RIVER, L.		
Rainy Lake region, relations of. 47, 48		iv	OF THE WOODS.		
See also Azoic system.			Evidence re, before R. C....	65, 118	R C
Archelutius co., COL.			Arizona Cobalt Silver Co.		
Oil in	93	A xiv	Capital and date of charter	31	A xvi
Archer, George	50, 53	xii	Arkona, BOSANQUET TP., LAMBTON CO.		
Archibald, John	46, 48	xii	Hamilton formation near.	155	xii
Ardagh, Andrew H.				69	B xiii
Peat making by, 1899	23	ix	Arkose. See Greywacké.		
E. G. R.			Arminus pyrites mine, LOUISA CO.		
Analysis by, of Sudbury rocks..	212	A xiii	VA.		
	117	C xiv	Notes on, by W. H. Adams.....	172	A xvi
Work by, 1905.....	39-41	A xv	Armour plate.		
Ardoch, CLARENDON TP., FRONTENAC			See also British Admiralty, Nickel-		
co.			steel, etc.		
Gold mining near. See Boerth			Nickel for	176	i
mine.			papers on.....	147-163	iii
Rocks between, and Plevna.....	203	xi	by Bell ...	179-181	iv
<i>Arenaria grœnlandica.</i>			Jaques. 194-198		iv
Abitibi dist.	241	A xiv	Sperry. 185-189		iv
Arendal, ON THE SKAGERRAK, NOR-			used by Gt. Britain ..	165	C xiv
WAY.			Thickness and weight.....	365	R C
Iron ores of.....	472	R C	Titaniferous ores smelted for....	231	vii
<i>Arethusa bulbosa.</i>			United States, tests on nickel-		
Abitibi dist.....	241	A xiv	steel for	185	iv
Mattagami valley	150	A xv	tp., P. S. D.		
Argentan.			Brickyard in. See Burks Falls.		
Composition of.....	159, 160	ii	Nickel mining in	286	xi
Nickel for making.....	155	ii	Prospecting in, for nickel and		
Argenteuil co., QUE.			copper.	44, 45	A xiii
Limestones of.....	11	R C	Arms, W. P.	102	vii
Gold Mg. and Milling Co.					
Capital and date of charter	9	ix			
Iron mining by, near Jackfish..	74	A xiii			

	Page.	Vol.		Page.	Vol.
Armstrong, G.			Arsenic.		
Brick making by, Toronto.....	110 B	xv	<i>See also</i> Mispickel, and Deloro		
H.	102	viii	gold mine.		
	115	ix	Cobalt, Ont.	31 B	xiv
	140	x		25 A	xvi
	73	xi	analysis	22 B	xiv
	65	xii	not paid for.....	8 A	xv
Hugh	56	viii	production, 1904	22 A	xiv
John	159 A	xiv		15, 16 B	xiv
L. O.	115	ix	1905.....	9, 23 A	xv
Lord			1906.....	10, 11 A	xvi
On expert knowledge in manu-			with smaltite and nicco-		
facturing	486	R C	lite.....	23 A	xv
Thomas	75	viii	Cornwall, England, methods of		
	27, 61	ix	mining.....	60, 61	iii
	67 A	xiii	Deloro, manufacture of.....	14, 36	xii
Nesbitt T.			Edward island, L. Superior.....	86	v
Acknowledgments to.....	61	xi		195	ix
Corundum on land of, Carlow			Exhibit of, Louisiana Exhib'n..	16 B	xiv
.....tp.....	208, 219	vii	Hardness of.....	202	vi
	242, 244, 246	viii	In gold ores, Hastings co.....	72	R C
	37	xii		174	i
worked by Ashland			percentage of	237	iv
Emery Co.....	99 A	xv	treatment	405	R C
Owner mica property, near Edg-				56-61	iii
ington	98	vii	In sperrylite.....	190	ii
<i>See also</i> Armstrong mills.			Jarvis island, L. Superior.....	198	R C
W. J.	102	vii	Joachimsthal, Bohemia	61 B	xiv
	102	viii	Ores of, description by Goodwin	221	vi
	140	x	Paper on, by Wells....	101-122	xi
	73	xi	Percentage of, in white.....	32 B	xiv
	65	xii	Photo of refined.....	112-113	xi
and Dent.			Price, 1898	288	viii
Quarrying by, Credit Forks.....	99	i	1905	15 B	xiv
lake, TRILL TP., ALG.			Proportion of, in glass.....	118, 119	xi
Rocks on and near.....	64 C	xiv	Refining plants for.....	73 B	xiv
Laurentian	196 A	xiii	Specific gravity of.....	202	vi
mill, PAPINEAU CREEK, YORK			Statistics, 1885-1901.....	112	xi
BRANCH RIVER.			1886, 1887	210, 243	R C
Limestone at, crystalline	222	viii	1899.....	13	ix
fossiliferous	40 B	xiii		12	x
tp., NIP.			1900	7, 11, 12	x
Blanche river in, course of....	36 B	xiv	1901	8, 12, 13, 29	xi
Arnprior, McNAB TP., RENFREW CO.			1902.....	12, 13, 36	xii
Brick yard at, notes on.....	96 B	xv	1903.....	2, 4, 18	Pt i xiii
analysis of clay			1904.....	1, 3, 22, 73	Pt i xiv
used in	31 B	xv	1905.....	1, 4, 23	Pt i xv
Cambro-Silurian rocks at.....	38 B	xiii	1906.....	3, 6, 25 A	xv
Iron ore near	137	R C	Symbol for	202	vi
	141	xi	Timagami dist.....	28-31 B	xiv
mining. <i>See</i> McNab iron			Use of, in glass colouring.....	73 B	xiv
mine.			Valve of.....	15 B	xiv
Marble near :			Worthington nickel mine.....	28	xi
analysis	105 B	xiii	bloom. <i>See</i> Arsenolite.		
character.....	69	R C	lake, NEAR TIMAGAMI, NIP.		
	31 B	xiii	Mispickel mining on.....	88 A	xv
evidence before R. C.....	82	R C		73, 74 A	xiv
notes by Merritt	75	R C	Arsenical copper. <i>See</i> Domeykite.		
quarries	12, 102, 103 B	xiii	iron. <i>See</i> Leucopyrite		
Marine shells near, altitude....	216	x	nickel. <i>See</i> Niccolite.		
Arragonite. <i>See</i> Aragonite.			pyrites. <i>See</i> Mispickel.		
Arrow heads.			Arsenide of platinum. <i>See</i> Sperry-		
Made from rocks.....	83	i	lite.		
lake, N. OF L. SUPERIOR,			Arsenious acid.		
TH. B. D.			Production, 1888	72	R C
Iron ore on.....	70	ii	Arseniuret of nickel. <i>See</i> Nickeline.		
prospecting for.....	20	xii			

	Page.	Vol.		Page.	Vol.
Arsenolite,			Asbolite.		
Cobalt dist.	98 A	xiii	Joachimsthal, Bohemia	61 B	xiv
Marmora tp	195	ix	New Caledonia	68 B	xiv
Street tp	195	ix	<i>Asclepias incarnata.</i>		
Arsenopyrite. <i>See</i> Mispickel			Mattagami valley	151 A	xv
Artemesia gravel.			Ascot tp., SHERBROOKE CO., QUE.		
Description and distribution	53	i	Sulphuric acid works in. <i>See</i>		
Named by Bell	4	R C	Capelton.		
Notes on, by Bell	51	R C	Ash.		
Artemisia tp., GREY CO.			Batchawana valley	200	viii
Artemesia gravel named after ...	51	R C	Blanche river	174, 183	xii
Calcareous tufa in	110 B	xiii	Fort Frances	161	v
Clinton and Niagara formations			Hudson Bay slope	121	iv
in	48, 49 B	xiii	McConkey tp	171	ix
Marl in, analysis	51 B	xiii	Mississagi valley	172	xii
Terrace in. <i>See</i> Flesherton.			L. of the Woods, Ash rapid	51	v
Artesian theory.			Rainy Lake dist	96	iv
Demonstration of, as applied to			Rainy river	117	iv
gas and soil	154-157	i		208	v
wells,			black		
Paper on, by Blue	49-62	i	Abitibi dist	126 A	xiii
Union, Yarmouth tp	128	ii		242 A	xiv
<i>See also</i> Water.			Frederick House Lake reg.	124 A	xiii
<i>Arthropycus harlani.</i>			Michipicoten div	189	vii
Thorold	116 B	xiii		295, 296 A	xiv
Arthur, Dr. R. H.	212	iv	Mississagi river	161	xii
	50	xi	Moose River basin	176 A	xiii
iron mine, CHANDOS TP., PETER-			mountain		
BOROUGH CO.	82	ii	Abitibi dist	126 A	xiii
Mining Co.				241, 242 A	xiv
Capital and date of charter	7	vii	Michipicoten div	189	vii
Artikameg Prospecting, Mining				142	viii
and Lumbering Co.				296 A	xiv
Capital and date of charter	7	vii	Moose River basin	176 A	xiii
<i>Asaphus aspectans</i>			rapid, L. OF THE WOODS.		
Anderdon tp	125	xi	Flora of	51	v
" <i>megistos.</i>			Minor ref. to	106	vi
Cobourg	40, 89 B	xiii	Photo of	46 A	xiv
Asbestos.			river, MISSISSAGI RIVER, ALG.		
Analysis, average	90	iii	Lignite on, probability of	174 A	xiii
Definition	528	R C	Minor ref. to	194	viii
and properties	93-96	iii	Ashbridge, J.		
Exhibited at World's Fair	189	ii	Brick making by, Toronto	29	xii
Hardness of	212	vi		108 B	xv
Huronian belt, possibility of	87	i	Ashburner, C. A.		
Italy, notes by Boyd	96	iii	Notes by, on natural gas. .126, 143-146		i
Marmora tp	246	i	Ashby tp., ADDINGTON CO.		
	97	iii	Rocks in, along Snow road	225	viii
Notes, by Goodwin, on various			Asher, Alexander	136	i
forms of	227	vi	Ashfield (NINE-MILE) river, HURON CO.		
Occurrences	97, 98	iii	Rocks on	66 B	xiii
	195	ix	Ashian portage, NETTOGAMI RIVER,		
Port Arthur dist	192	R C	ALG.	138 A	xiii
Production, Canada, 1886-7	243	R C	Ashland, ASHLAND CO., WIS.		
1888	525	R C	Record of Hinkle furnace at	340	R C
1890	246	i	Sulphuric acid works at	184 A	xvi
United States, 1888	525	R C	Emery and Corundum Co.		
Rainy River dist	50	iv	Capital and date of charter	25 A	xiv
possibility of	73, 76	iv	Operating, 1905	19 A	xv
prospecting for	114	vii	1906	21, 84 A	xvi
Specific gravity of	212	vi	Plant of, notes and photo	99 A	xv
Thetford., Que., Beaver mine	193	ii	Previous name of	19 A	xiv
notes on	246	i	Ashley mica mine, LOUGHBOROUGH		
United States	98, 99	iii	TP., FRONTENAC CO.	91 A	xiii
<i>See also</i> Mountain leather.			Ashman, (?)	137 C	xiv
			Ashton, W. F.	79, 80 A	xiii
			Asia.		
			Copper production of, 1880-87 ...	371	R C
			Asia Minor.		
			Arsenical ores in	102	xi

	Page.	Vol.		Page	Vol.
Aspdin, Joseph			<i>Aster puniceus</i> var. <i>lucidulus</i> .		
Portland cement first made by..	118	A xiv	Abitibi dist.....	241	A xiv
Aspelund, George	163	v	" <i>tardiflorus</i> .		
Aspen , (ASPEN POPLAR; <i>Populus</i>			Abitibi dist.....	241	A xiv
<i>tremuloides</i>).			<i>Asteria</i> .		
Abitibi dist.....	125	A xiii	Ottawa	224	x
215, 216,	242	A xiv	Astor, John Jacob. See Astor Com-		
injured by insects.....	129	A xiii	pany.		
Frederick House Lake region...	124	A xiii	Company.		
Kenogami valley.....	112	iv	Post of, Pither pt	162	v
Manitoba and North-west terri-			Astorville (late NOSBONSING), FERRIS		
tories, for building and fuel...	215	A xiv	TP., NIP.		
Mattagami valley	137	A xv	Apatite crystals near	94	i
Michipicoten div.....	295	A xiv	Astron bay , GRANDE PRESQU'ILE,		
Moose River basin	176	A xiii	L. OF THE WOODS.		
Porcupine Lake dist.....	122	A xiii	Notes on, by Coleman.....	115	vii
leaf roller.			Rocks from, petrography... 145, 146		vii
Abitibi dist.....	129	A xiii	Atagawan river , MISSINAIBI RIVER,		
Asphalt.			ALG.....	194	viii
As street paving, cost per sq. yd.	14	v	174	A xiii	
notes by Gibson.....	105, 106	iii	Atchepemiska lake , ALG.....	130, 141	ix
Mexico, analysis.....	166	vi	Ate.		
Notes by Goodwin	220	vi	Meaning of, as a termination ...	447	R C
Asphaltum (BITUMEN).			Athabaska Landing , ATHABASKA		
Lambton co	193	ii	RIVER, ALTA.		
Enniskillen tp	195	ix	Oil at, boring for.....	172	v
United States, production, 1888.	525	R C	river , ALTA.		
<i>Aspidium spinulosum</i> var. <i>intermedium</i> .			Tar sands on	543	R C
Mattagami valley	151	A xv	Athens , GREECE.		
<i>Asplenium thelypteroides</i> .			Mortar used in, by ancient Greeks.	12	B xii
Abitibi dist.....	242	A xiv	Athens , YONGE TP., LEEDS CO.		
Mattagami valley	151	A xv	Marl in	121	A xiv
Assay office. See Provincial assay			<i>Ath'ris clara</i> .		
office.			St. Marys.....	151, 152	xii
Assaying and Smelting Co.			96	B xiii	
Capital and date of charter	7	vii	Walpole tp	143	xii
Assays.			" <i>cylindrica</i> .		
Copper ore, Blake tp.....	147	ix	Thorold	117	B xiii
Galena, Echo lake	147	R C	" <i>maia</i> .		
McTavish tp.....	38	R C	St. Marys	151, 152	xii
Iron ore, Little Pic river.....	37	R C	96	B xiii	
Mayo tp.....	261	xi	" <i>spiriferoides</i> .		
Timagami dist	180	x	Beachville	148, 153	xii
Nickel ores, Sudbury dist.....	199	A xiii	92	B xiii	
Quartz, Heron bay (near)	29	R C	Kwataboahagan river	186	A xiii
L. of Woods region...25, 115		R C	photo of, in lime-		
Marmora tp	28, 107	R C	stone	192	A xiii
Partridge lake.....	26	R C	St. Marys.....	151	A xiii
Golden Star mine.....	268-271	viii	96	B xiii	
Rainy Lake and Seine			Thedford.....	154	xii
River dist.....	59, 60	iv	69	B xiii	
Wanapitei lake.....	27	R C	Atikokan, R.R.D.		
92		i	Gold mining near. See Elizabeth		
Sand and gravel, Savant lake ...	90	xii	mine.		
Silver ore, West Silver Mt. mine.	202	R C	Iron ore near	88	i
Zincblende, Whitesand river....	31	R C	mining. See Atikokan		
	177	i	iron range.		
Assumption. See L'Assomption.			Peat near.....	146	xi
Aster.			Photo of.....	128, 129	xi
Moose River basin	177	A xiii	creek , ATKOKAN RIVER, R.R.D.		
<i>Aster macrophyllus</i> .			Iron mining near. See Iron int.		
Abitibi dist.....	241	A xiv	Gold Development Co.		
" <i>multiflorus</i> .			Capital and date of charter	9	ix
Abitibi dist	241	A xiv	Iron Co.		
" <i>novae-angliae</i> .			Capital and date of charter	9	x
Abitibi dist.....	241	A xiv	Coal dock of, Port Arthur, photo.	61	A xv
" <i>paniculatis</i> .			Smelter of, Port Arthur, proposed.	13	A xiv
Abitibi dist.....	241	A xiv			

	Page.	Vol.		Page.	Vol.
Atikokan iron mine, ATIKOKAN RANGE, R. R. D.			Atlas gold=arsenic mine, MARMORA TP., HASTINGS CO.		
Notes on, 1905, and photo.....	59-61	A xv	Cyanide plant at	93	A xiii
1906	60, 61	A xvi	Notes on, by Wells.....	103	xi
Work at, 1905	47	A xv	Producing, 1903.....	4	A xiii
iron range, SEINE RIVER DIST.			Gold Mining and Develop=		
Boring in, 1900	25	xi	ment Co.		
1901	58	xi	Capital and date of charter	7	vii
details	131-133	xi	Mining Co.		
Deposits in, leased by the Belgian			Capital and date of charter	9	ix
Bank	9,	i	<i>Atrypa.</i>		
	191	iii	Gore Bay	77	B xiii
Gold in	58	iv	" <i>intermedia.</i>		
Mining in, 1899	88	ix	Anderdon tp	125	xi
1901	265, 266	xi	" <i>r. ticularis.</i>		
Notes by Blue	210	v	Abitibi river	188	viii
Miller	306	xii	Anderdon tp	125	xi
various prospectors..	70-76	ii	Cayuga tp	146	xii
Ore from, at World's Fair.....	79-82	ii	Kwataboahegan river	186	A xiii
character	141	xi	photo.....	192, 193	A xiii
Ore of, quality	191	ii	Hagersville	145	xii
	267	vi	Lake Superior, north shore	156	viii
in Keewatin formation ..	30	B xiv	Port Colborne	35	xi
supply undoubted	86	ii	St. Marys	152	xii
Prospecting in, 1900	35	x	Springvale	144	xii
Railway to, from Fort William,			Stony pt., L. Huron.....	155	xii
projected	133	v	Thedford	154	xii
Rocks of, notes by Coleman	164	ix	Thorold	117	B xiii
petrography.....	145	xi	Woodstock	148	xii
Smelter for, at Port Arthur.....	13	A xiv	" <i>spinosa.</i>		
	17	A xvi	Anderdon tp	125	xi
(or ANTLER) river, SEINE RIVER.			Attercliffe, YORKSHIRE, ENGLAND.		
Description, by Blue	140-144	v	Steel works at	362	R C
Coleman	72-74	v	Attercliffe, MOULTON TP., HALDI-		
Falls on, description.....	141	v	MAND CO.		
photo.....	89	v	Brick-yard at, notes.....	77	B xv
Forest fires along	96	iv	Natural gas in	91	A xiv
Glacial striae on.....	89	v	boring for	105, 106	A xiv
Gold mining on. <i>See Hawk Bay</i>			pipcd to	22	A xv
gold mine.			Station Natural Gas Co.		
Iron on.....	144	R C	Capital and date of charter	7	vii
	176	i	Attrill salt well, GODERICH.		
	73-75,	123	Depth and thickness of beds....	33	vi
	141	v	Evidence <i>re</i> , before R. C	54	R C
evidence before R. C.....	61	R C	Log of	185	R C
magnetite.....	20, 22	R C	Purity of	189	R C
mining	131-133	xi	Attwood, George		
photo of hills of.....	80, 81	v	Speech by, <i>re</i> Mond Nickel Co..	118	viii
Portages on, cut by Govt.	9	vi	Atwater, A. A.	51	ix
Rocks on, Keewatin.....	59	iv	Atwood and McCaffrey.	118	ii
Waterpower on	252	vii	Atwood, ELMA TP., PERTH CO.		
Atinimikie bay, LAKE OF THE WOODS.			Cement at. <i>See</i> Western Ont.		
<i>See</i> Grassy bay.			Portland Cement Co.		
Atkins, George J.	43	iii	Clay and marl at.....	162	A xiv
Atkinson, D. C. T.	43	ix	Au Lard river, QUE. <i>See</i> Radnor		
Marble and Granite Co.			Forges.		
Capital and date of charter	7	vii	Aubertot. (?)		
Atlanta, FULTON CO., GEORGIA.			Inventor of hot air blast.....	321	R C
Brick pavements in	108	iii	Aubin, N.		
Atlantic Oil Co.			Peat process of.....	206	ii
Capital and date of charter	27	A xvi	tp., ALG.		
Atlas Arsenic Co.			Soil and timber in	121, 136, 141	A xv
Exhibit of, at Pan-American			Aubinadong (or OBABIKA) river,		
Exhibition	85	xi	MISSISSAGI RIVER, L. HURON.		
Gawley and Pearce mines worked			Description of and of main river		
by	104	xi	near.....	162, 165	xii
Plant of, photo.....	289, 290	xi			
Work by, Marmora tp.....	92	ix			
	116, 117	x			
	15, 197, 233, 244	xi			
	14, 36, 110	xii			

	Page.	Vol.
Aubrey (AKIKENDA) falls, MISSISSAGI RIVER, L. HURON.		
Notes on, by Graton	161	xii
tp., MANITOU LAKE DIST., R. R. D.		
Gold mining in	95	x
Audette, Frank	51	xi
J.	102	viii
Auger, John	110	xii
Augite.		
Sudbury dist	195	ix
diorite.		
Port Coldwell, petrography	148	vii
porphyrite.		
Port Coldwell, petrography	149	vii
syenite.		
Abitibi river	185, 193	viii
L. Superior, N. shore, notes. .	210-212	xi
Port Coldwell, petrography	147	vii
Augusta silver mine, STRANGE TP., TH. B. D.		
Notes on, 1891	228	i
1892	240	ii
tp., GRENVILLE CO.		
Brick-clay in. <i>See</i> Prescott.		
Cambro-Silurian formations in. .	47, 48	B xiii
Auld tp., NIP.	35	B xiv
<i>Aulocopium.</i>		
Hamilton	141	xii
<i>Aulopora Serpens.</i>		
N. Cayuga tp	146	xii
Ault, William	32, 35	A xvi
Aultsville, OSNABRUCK TP., STORMONT CO.		
Trenton formation near	48, 111	B xiii
Aunger, J. L.		
Iron ore exhibited by, at Chicago. .	82	ii
Notes by, on Blairton iron mine. .	43	ii
Aurora Mining and Development Co.		
Capital and date of charter	7	vii
tp., NIP.		
Granite in	206, 210	A xiv
Trees and soil in	204, 229, 230	A xiv
Ausable (SABLE) river, L. HURON.		
Copper claims on	98	xii
Granites northeast of	68	i
Hamilton formation on	155	xii
Limestone near mouth of	37, 50	B xiii
Lumbering on	119	iv
Section of strata on tributaries of. .	68	B xiii
Waterpower on	120	x
Austen—? (H. B. C.)	114	vii
W. C. R.		
Notes by, on mining-schools in U. S.		
Austin—?		
Mica mining by, Loughborough tp.	90	A xvi
George F. <i>See</i> Austin copper mine.		
Moses	256	ii
W. A.	113	iv
bay, TIMAGAMI LAKE, NIP.		
Geology of	174	x
Mispickel on	179	x
copper mine, ECHO LAKE, ALG.		
Maps, notes and contour of. .	91, 92	R C
Australasia.		
Mining laws and regulations of. .	286-296	R C

	Page.	Vol.
Australia.		
Boring in, by Govt.	55	x
for gold. .	164, 165, 233, 234	iii v
Cobalt imports of, 1905	73	B xiv
ores in	103	A xiii
Copper production of, 1880-87. .	371	R C
Financial depression in, 1891. .	30	ii
Gold in, mode of occurrence. .	71	iv
reefs, character.	66	R C
Mineral industry of, Govt. aid to. .	420	R C
Mining lands in, system of leasing	8	i
Austria.		
Arsenic mining in	101	xi
Cobalt deposits of	61-63	B xiv
Mining schools in	513	R C
Nickel coinage in	164	C xiv
proposed	145	ii
Peat drying process in. .	196	i
Austria-Hungary.		
Iron and steel production of, 1888. .	224	R C
Mining laws of	297	R C
Auvergne dep., FRANCE.		
Corundum in	241	viii
Aux Sables river. <i>See</i> Ausable river.		
Aventurine feldspar.		
Occurrences of	195	ix
Avery, George	47	x
	39	A xv
<i>Aracula.</i>		
Gore Bay	77	B xiii
" <i>textilis.</i>		
Abitibi river	188	A xiii
Kwataboahegan river	188	A xiii
<i>Ariculopecten princeps.</i>		
St. Marys	152	xii
	96	B xiii
Avoca valley, WICKLOW CO., IRELAND.		
Pyrites in	192	A xvi
Avon gold mine, SHAKESPEARE TP., ALG.		
Notes on, 1904	58	A xiv
Avonmore, ROXBOROUGH TP., STORMONT CO.		
Marine deposits near	218	x
Awaruite.		
George river, N. Z.	151	C xiv
Aweres sta., MICHIPICOTEN DIV., ALG.		
Terrace at	199	A xv
Awrey, Nicholas	190	iii
Axe-handle portage, NETTOGAMI RIVER, ALG.		
	138	A xiii
Axinite.		
Prescott co	193	ii
Aylmer, H. B.	122	vii
	42, 75	viii
Aylmer, MALAHIDE TP., ELGIN CO.		
Brick-yard at	62	B xv
Oil well in	109	A xiv
Aylmer, OTTAWA CO., QUE.		
Cambro-Silurian at	38	B xiii
pt., L. OF THE WOODS	186	v
Aylsworth tp., R. R. D.	167	v
Ayr, N. DUMFRIES TP., WATERLOO CO.		
Country around, character.	149	xii
	115	B xiii

	Page.	Vol.		Page.	Vol.
Azilda, RAYSIDE TP., ALG.			Bad gold mine, NEAR ROSSLAND,		
Agricultural land near.....	241	xii	ONT.		
104, 105 C	xiv		Depth of, 1900.....	35	ix
Minor refs. to.....	200 A	xiii	Geology of.....	69	iv
69 C	xiv		Notes of.....	30, 31	iii
Rocks near, nickel-bearing.....				56	viii
5, 39, 54, 55, 62 C	xiv			38	ix
norite.....	293	xii		83	iii
sandstone.....	100 C	xiv	river, L. SUPERIOR, U.S.		
section.....	204 A	xiii	river, WINDERMERE LAKE, ALG.		
Terrace at, altitude.....	103 C	xiv	Mica and talc schists on.....	204	viii
Azoic system.			Notes on, by Charlton.....	201	viii
Definition of.....	529	R C	Vermilion bay, BAD VERMI-		
Occurrences, etc. <i>See</i> Archæan.			LION LAKE, SEINE RIVER.		
Azurite (BLUE CARBONATE OF COPPER).			Gold mining on. <i>See</i> Hillyer		
Batchawana bay.....	193	ii	gold mine.		
Bisbee, Arizona.....	212	vi	creek, BAD VERMI-		
Determination of.....	204, 212	vi	LION LAKE, SEINE RIVER.....	63, 65	v
Hardness of.....	202	vi	Gold Mg. Co.		
Lakes Huron and Superior.....	195	ix	Capital and date of charter.....	9	viii
Port Arthur dist.....	58 B	xiv	lake, SEINE RIVER.		
Princes location....	193	ii	Erythrite on.....	74	iv
Prospecting for, hints on.....	457	R C		198	ix
Specific gravity of.....	202	vi		60 B	xiv
B. A. Pyrites Co.			Fissure veins S. of.....	52, 53	iv
Exhibits of, at Buffalo.....	25 A	xv	Gold mining on. (<i>See also</i> Golden		
Babbitt metal.			Star mine).....	5 Bull. 1	
Arsenic for hardening.....	114, 117	xi		230	iv
Babcock, John				82	vi
Evidence by, before R.C., <i>re</i> :—				74	vii
prospectors.....	311, 426	R C		45	viii
Sudbury dist.....	105	R C	Notes by Coleman.....	55-58	iv
Nickel prospecting by, Levack tp.	233	i		63-67	v
Purchaser of Beatrice mine.....	190	iii	Map of part of.....	293	viii
and Wilcox.			Rocks on and near.....	272 A	xiv
Boiler output of, 1893.....	119	ii	anorthosite, notes and analysis		
gold mine, PORTLAND TP.,				98-102	v
FRONTENAC CO.			gabbro.....	49	iv
Auriferous mispickel in.....	203	xi	granite.....	79, 80	iv
Babel, Tower of				103	v
	166	i	junction with Keewatin,		
	107	iii	photo.....	64, 65	vi
Baboon falls, MISSISSAGI RIVER, ALG.			petrography.....	96, 97	v
Photo.....	136, 137	viii	Keewatin formation.....	50	iv
Baby, William W.			porphyrites.....	91	iv
	127	iii	Surveys on, by Coleman, ref. to.	40	iv
	124	vii	Trout in.....	63	v
mica mine, N. BURGESS TP.,			river, BAD VERMI-		
LANARK CO.			LION LAKE, R. R. D.		
Notes on, 1895.....	278, 279	v	Rocks on, anorthosite.....	92	iv
Re-opening of, suggested.....	132	x	granite.....	90	iv
1904.....	85 A	xiv	Baden-Powell gold mine, EAGLE		
Worked by Richardson Bros....	103 A	xv	LAKE, MANITOU LAKE DIST.		
Babylon, EUPHRATES RIVER, ASIA.			Minor ref. to.....	49	xii
Notes on, by Hilprecht.....	166	i	Notes on, 1900.....	96	x
Bachewanaung. <i>See</i> Batchawana.			1901.....	244	xi
Bacon, B. T.			1902.....	93	xii
	115	ix	1904.....	48 A	xiv
	140	x	1905.....	54 A	xv
D. H.			Operating, 1906.....	59 A	xvi
Evidence by, before R.C.....	125	R C	Option given on, 1901.....	244	xi
McKellar-Graham iron claim ex-			Photo of.....	96, 97 A	xiii
amined by.....	72, 73	ii	Mining Co.		
Backus farm, DUNWICH TP., ELGIN				43 A	xvi
co.			Badgely, John		
Oil production of, 1898.....	16	viii		32	viii
syndicate.			Badger silver mine, GILLIES TP.,		
Water power developed by, at			TH. B. D.		
Fort Frances,.....	14 A	xv	Acquired by Consolidated Mines		
Bad Creek corundum mine, N.			Co.....	19, 256	xi
CAROLINA				96	xii
	225	vii	Animikie formation in.....	35	R C

	Page.	Vol.		Page.	Vol.
Badger silver mine.—<i>Con.</i>			Bailey, R. E.		
Course of veins in.....	62, 198, 203	R C	Evidence by, before R. C. <i>re</i> :—		
Evidence <i>re</i> , before R. C.....			Galena, Garden river.....	203	R C
63, 198-200, 208		R C	iron near Echo lake.....	143	R C
Inspector's report on, 1891 ..	226, 227	i	mining plants.....	396	R C
1892.....	239	ii	minerals, Goulais Bay dist....	60	R C
Notes by Merritt; section	193	R C	prospectors	308	R C
Re-opened, 1897	83	vii	tariffs	231	R C
Silver in, native	207	vi	Minor reference to	64	ii
Stephanite in	210	ix	Mining Co.		
Working of, unprofitable	177	i	Capital and date of charter	29 A	xiv
Mining Co.			Bain, J. Watson		
Capital and date of charter	7	vii	Analysis by, of Sudbury matte..	152 C	xiv
Badische Anilin und Soda Fabrik.			Notes by, on :—		
Pyrites smelting by	195 A	xvi	Golden Star mine.....	77, 78	viii
Badoureaux, A.			mines in western Ont.	275-279	viii
Ref. to memoirs by, on nickel			Report by, on :—		
ores	156	ii	Iron belt of L. Nipigon	212-214	x
Baffin island, FRANKLIN.			ref. to.....	310	xii
Archæan rocks on.....	7	R C	15 A	xv	
104		iv	Nickel industry, 1898	213-224	ix
245		v	School of Practical Science		
Mountains of, strike.....	248	v	(1897)	264, 265	vii
Bag bay, SHOAL LAKE, W. OF LAKE			Summer Mining Classes (1898)		
OF THE WOODS.			280-282		viii
Gold on, boring for	67	viii	Work by, 1900.....	5	x
52		x	105, 127 A	xvi	
notes by Coleman..	49, 50	v	1902	3, 54, 55	xii
<i>See also</i> Cornucopia mine.			1904.....	37, 41 A	xiv
Mikado mine.			1906.....	49 A	xvi
Granite on, notes by Coleman ..	103	v	Bain, W.	140	x
Map of	Facing 64	viii	73	xi	
<i>See also</i> Shoal lake			Baine Mining and Exploration Co.		
Gold Mines Co.			Capital and date of charter.....	9	ix
Capital and date of charter.....	9	x	Baird, H. J. B.		
Bagdad, ASIATIC TURKEY.....	166	i	Manager for Canadian Copper Co.	84 A	xiii
Bagot tp., RENNERT CO.			Resignation of	69 A	xiv
Bournonite in	195	ix	Statement by, <i>re</i> water-jacketed		
Clinocllore in, analysis	196	ix	furnaces	83 A	xiii
Iron in, exhibited at World's			J. E.	102	viii
Fair.....	79	ii	U.	118	ii
Magnetite in.....	202	ix	Bros. (SCOTLAND).....	361	R C
mining	275	v	H. C. and Son.		
notes by Campbell ..	136	R C	Brick-yard of, Parkhill	75, 80 B	xv
Merritt ...	128	R C	Mining Co.		
<i>See also</i> Calabogie.			Capital and date of charter.....	9	x
Limestone in.....	101 B	xiii	Baker, Alexander	64	R C
Tremolite in	211	ix	123	iv	
Baie des Peres (VILLE MARIE), TIM-			87	vi	
ISKAMING LAKE, QUE.,			C. L.	255	xi
Geology of vicinity.....	174	ix	Dr.	32	xi
Rocks near	102 A	xiii	J. N.	238	ii
46 B	xiv		Col. James		
Striae at, direction	178	ix	Speech by, <i>re</i> Mond nickel pro-		
Terraces near, altitude	178	ix	cess	117	viii
Fine. <i>See</i> Narrow bay, Geor-			M. B.		
gian bay.			Acknowledgments to.....	189	xii
St. Paul. <i>See</i> Bay St. Paul.			Greenstone from Bucke tp. ex-		
Baikie, D.	68	vi	amined by.	42 B	xiv
Baisky mts., NOVGOROD DIV., RUS-			Report by, on clay and clay in-		
SIA	213	vii	dustry.....	Pt. B	xv
Bailey, C. W.	102, 195	vii	ref. to	47 A	xvi
J. C.			Surveys by, Abitibi dist.....	205, 208 A	xiv
Evidence by, before R. C.	57	R C	Baker, William		
Ref. to surveys by, N. of North			Brick yard of, Arnprior	96 B	xv
Bay	105	iv	clay for, analysis	31 B	xv
L. W.			Bros.		
Ref. to report by, on time indus-			Brick yard of, Casselman, notes.		
try of N.B.	10 B	xiii	98,	99 B	xv
			producing	29	xii

	Page.	Vol.		Page.	Vol.
Baker iron mine , HASTINGS DIST.			Balfour tp.—Con.		
Rocks of	57	ii	Zinc-blende in	209	ix
Baking powder.			, mining	33	viii
Iron pyrites for making	257	v	<i>See also</i> Chelmsford.		
Bakka, Jesta.	54, 57	xi	Ball, C. M.		
Baku oil field , RUSSIA.	115	i	<i>See</i> Ball-Norton Separator.		
"Balance of Trade."			Dick	177	vii
Gt. Britain, France and Belgium,			46	x	
statistics, 1868-1886.	397	R C	H. G.	102	vii
<i>Balanus crenatus.</i>			=Norton Separator.		
Nepean tp.	216, 224	x	Description	326, 327	xii
" <i>hameri</i> ,			Notes on, and diagram	130, 131	A xiv
Nepean tp.	224	x	by inventor.	339	xii
" <i>mysticetus.</i> <i>See</i> Whale.			Ballantyne, A.		
Balbach and Son.			Lime producing by, 1902	28	xii
Huronian gold mine ores treated			Joseph Arthur		
by	124	v	On quality of Canadian salt.	191	R C
Smelting by, of Thunder Bay			R. M.		
dist. ores	63	R C	Invalided home, 1848	173	ii
<i>See also</i> next refs.			Notes by, on :—		
Smelting and Refining Co.			Lake of the Woods.	167	v
Cobalt ores purchased by.	11	A xvi	Rainy river	207, 208	v
Nickel refining by, method.	221	ix	travelling in New Ontario, 1845.	200	v
Bald Indian bay , LAKE OF THE			station , PITTSBURG TP., FRON-		
WOODS.			TENAC CO.	221	x
Gold mining on. <i>See also</i> Burley			Ballarat , VICTORIA, AUSTRALIA.		
mine.			School of mines at	521	R C
Map of	64, 65	viii	Mining Co.		
Mining and Investment Co.			Capital and date of charter	24	A xiii
Capital and date of charter	7	vii	Ballast.		
mt. , HUNGERFORD TP., HAST-			Iroquis Beach gravels for	238	A xiii
INGS CO.			Balm of Gilead (POPLAR, ROUGH-		
Rocks of	157	A xvi	BARKED)		
Balderson , DRUMMOND TP., LANARK			Abitibi dist.	124-126	A xiii
CG.			224, 225, 228-233, 250, 251	A xiv	
Limestone at.	46	ii	Black river	188	xii
Baldwin , HABERSHAM CO., GA.			diameter	199	A xiv
Analysis of clay from.	160	A xiii	125	A xv	
Baldwin , GEORGINA TP., YORK CO.			Blanche river.	215	xi
Limestone near	126	B xiii	Eby tp.	179, 180	xii
tp. , ALG.			Mattagami valley.	122, 123	A xiii
Rocks in, clay-slates.	73	i	188, 189	A xiv	
crystalline schists	80	i	118-121, 144, 145	A xv	
Baleo , CAL.			diameter.	127, 137-143, 152	A xv
Cobalt in smithsonite in.	71	B xiv	Michipicoten div.	189	vii
Balfour gold mine , BALFOUR TP.,			Rainy river.	117	iv
ALG.			leaf=gall.		
Notes on, 1892.	236	ii	Frederick House lake	129	A xiii
tp. , ALG.			Balsam,		
Anthraxolite in	159, 160	vi	Abitibi dist.	107, 124-126	A xiii
	152	vii	214, 215, 224-235, 249-251	A xiv	
	124	ix	125, 126	A xv	
	290	xii	river	178	viii
analysis.	95	C xiv	Black river	186, 188	xii
Bull. ii.			damaged by storms.	199	A xiv
162-164	vi		Blanche River region.	174, 178-182	xii
194	ix		Fourth base line	181	vii
96	C xiv		L. Huron slope.	170	vi
boring for.	51	x	L. Superior, east of, Speight's		
compared with carbon-			meridian line	199-202	viii
aceous shale, L. of			Matawin river	132	v
Woods	104	vi	Mattagami valley	105, 106, 122, 123	A xiii
specific gravity.	165	vi	188, 193, 195, 221	A xiv	
Gold mining in	236	ii	118-123, 136-140, 144	A xv	
Graphite in	168	x	diameter.	137, 141-145, 152	A xv
Sandstone in.	206, 207	A xiii	Michipicoten div.	189, 206	vii
<i>See also</i> Larchwood.			295	A xiv	
			13	Bull. iii	
			Mississagi valley.	159, 172	xii

	Page.	Vol.		Page.	Vol.
Balsam.—Con.			Bannockburn.—Con.		
Moose River basin	176	A xiii	Iron pyrites mining near.....	19, 39	A xiv
Nipigon Lake dist.....	138	A xvi		21	A xvi
Rainy river.....	117	iv	for sulphuric acid ..	38	xii
Seine river.....	150-153	v	Notes and photos.....	154-157	A xvi
Timagami Lake region	57	R C	by Miller.....	199	xi
fir. See Fir, balsam			See also Jarman pyrites mine.		
poplar. See Poplar, ba'sam			gold and pyrites mine, BAN-		
lake, VICTORIA CO.			NOCKBURN.		
See also Trent Valley Peat			Accident at	33, 35	A xvi
Fuel Co.			Mining class at.....	42	A xv
Limestone on.....	97	B xiii	Notes on, 1895	264, 265	v
Trenton	113	B xiii	1898.....	89, 90	vii
Peat on.....	21	ix	by Miller	199	xi
Baltimore, MARYLAND, U.S.			Origin of deposits	182	A xvi
Blast furnaces at, character of			Production, 1901.....	201	A xvi
ores for.....	400	R C	Shaft of, direction.....	187	A xvi
reasons for location	127	ii	Gold Mg. Co.		
Iroquois beach at	230	A xiii	Capital and date of charter.....	7	vii
and Ohio Ry.			Baptiste (INDIAN).....	112, 117	A xiii
Steel tires of, quality.....	192	iv	lake, MONTREAL RIVER, NIP.		
Baluss, Hamilton			Dolerites near.....	116, 117	A xiii
Gold mining by, near Wawa.....	102, 194	vii	Notes on, by Kelly.....	112, 113	A xiii
	102	viii	Bar lake. See Baril lake.		
Bancroft, FARADAY TP., HASTINGS CO.			Baraga, Frederic.....	138	v
Iron smelting at, proposed	234	vii	Barb, E. HAWKESBURY TP., PRESCOTT		
Mining class at, 1897.....	260	vii	CO.		
Position of.....	216	viii	Limestone near	98	B xiii
Quarrying near, granite	107	A xv	Barba—?.....	149	iii
marble	107	A xv	Barber, Dr.....	172	ix
	82	A xvi	tp., NIP.....	35	B xiv
sodalite.....	106	A xv	Barboux, Peter.....	171, 172	ii
	26	A xvi	Barclay,—?.....	91	A xv
Syenite at.....	216-218	viii	Barclay, R. C.....	41, 60	A xiv
Zircon near.....	212	ix	Barclay, R. R. D.		
Iron Co.			Dairy farm near.....	118	iv
Capital and date of charter	7	vii	Bare pt., L. OF THE WOODS.....	13	iii
Work by, Bancroft dist.....	61	ii		173	v
Banded Purple (BUTTERFLY).			Barebone island, ABITIBI RIVER.		
Abitibi dist	129	A xiii	Peaty clay on.....	188	viii
Bangor, VAN BUREN CO., MICH.			Baril bay, LAC DES MILLE LACS,		
Record of iron furnace at	339	R C	TH. B. D.		
tp., HASTINGS CO.			Route to, from Savant, descrip-		
Corundum in, notes by Miller ..	226	vii	tion	135	v
Bangs, F. C.....	14	v	Timber on.....	136	v
Banks, J. H. See Ricketts and Banks.			lake, NEAR LAC DES MILLE		
J. Lisney.....	84	xi	LACS, TH. B. D.		
Banksian pine. See Pine, Banksian			Beauty of.....	203	v
Banner Cobalt Mg. Co.			Forest fires near.....	96	iv
Capital and date of charter.....	27	A xvi	Notes on, by Blue.....	136	v
Oil Co.			Rocks on, Laurentian	73	v
Exhibits of, at Buffalo.	25	A xv	portage, BARIL LAKE, TH. B. D.		
Bannerman, A.	102	vii	Minor ref. to	136	v
lake, MONCRIEFF TP., ALG.,			Road from, to Huronian mine..	121	v
Rocks on and near ...	154	x	Trees south of.....	78	v
clay-slates.....	73	i	Barite. See Barytes.		
Bannockburn, MADOC TP., HASTINGS			Barium carbonate. See Witherite.		
CO.			sulphate. See Barytes.		
Copper near, prospecting for, ad-			Barker, C. R.	35	B xiii
visable	42	A xv	Bros.		
Galena mining near.....	32, 288	viii	Gold mining by, Manitou lake.	27, 76	viii
	94	A xiii		63	ix
	16	A xv	farm, THUNDER LAKE, ZEA-		
smelter.....	91	A xv	LAND TP., R. R. D.....	27, 76	viii
	78	A xvi		63	ix
photo	92	A xv	Iron at	136	xi
See also Hollandia lead mine.			Barkevig, NORWAY.		
Gold mining near	264	v	Nepheline-syenite of, ref. to....	209	xi
See also Bannockburn mine.					

	Page.	Vol.		Page.	Vol.
Barley.			Barnham, B.	140	x
Mentioned as growing at			Barnhart, W. H.	93	xii
Ground-hog lake.....	114	iv		49 A	xiv
James bay.....	107	iv	island, St. LAWRENCE RIVER.		
Long Lake House.....	112	iv	Chazy limestone opposite....	47, 111 B	xiii
Rainy River dist.	65	R C	Barnhisel, J. C.	102	vii
Barlow, Dr. Alfred E.			Barnsley, YORKSHIRE, ENGLAND.		
Acknowledgments to.....	169	vi	Coal in, royalty on.....	25	i
Altitude of L. Timiskaming de-			Barnum, H.	102	vii
termined by.....	177	ix	Barr, Henry	440, 441	R ^r C
Description by, of limestone,			=Andlau, ALSACE, GERMANY.		
Nipissing Lake region.....	81-84 B	xiii	Rock at, compared with rock in		
Estimate by, of Sudbury mineral			Rainy Lake dist.....	82	iv
production.....	156 C	xiv	Barrel lake. See Baril lake.		
Extract from report by, on nickel			Barrette (BURRITT) lake, METHUEN		
deposits of Sudbury.....	242	xii	TP., PETERBORO' CO.....	214	viii
Photo of.....	139 C	xiv	Barrie, VESPRE TP., SIMCOE CO.		
Tests by, on Sudbury ores.....	282	xii	Algonquin beach at, altitude of.	152	viii
Views of, concerning rocks of:—			Artesian wells in.....	58	i
Algoma—Nipissing line.....	183	vi	Brick-yard in, notes.....	99 B	xv
Sudbury dist.....	276,	xii	Peat-bog near.....	23	ix
Wanapitei dist.....	Pt. C	xiv	island, L. HURON, ONT.		
With British Association visitors,			Limestone on.....	77 B	xiii
1897.....	145	vii	silver mine, BARRIE TP., FRON-		
Work by, Hastings dist., ref. to			TENAC CO.....	203	xi
208,	227	vii	tp., FRONTENAC CO.		
	245	viii	Antimony from, specimen.....	190	ii
Sudbury dist., ref. to.	235	xii	Bismuth in.....	77 A	xiv
	194 A	xiii	Bismuthinite in.....	210	vi
	11 B	xiv		234	vii
Throughout pt. C	xiv			195	ix
Timagami dist., ref. to.	185	ix		77 A	xiv
	160-164	x	Columbite from.....	191	ii
	102 A	xiii	Field prospecting in.....	213,	v
	46 B	xiv	Galena in.....	198	ix
Samuel			auriferous.....	209	ix
Iron smelting by, Lyndhurst(1813).	319	R C	Gold mining in, 1902.....	112	xii
Col. W. W.	143	ii	1903.....	93 A	xiii
Barnard, Dr. E. E.	67	iii	See also Helena mine.		
K. T.			Star of the East mine.		
Assayer, St. Anthony Reef Gold			prospecting in.....	90 A	xv
mine.....	82	xii	Iron ore in.....	61	ii
W. H.			Jamesonite in.....	209	vi
Brick-making by, Monkton.....	94 B	xv	Marble of, analysis.....	45 B	xiii
=Argue=Roth=Stearns Oil and			character.....	31 B	xiii
Gas Co.				80	R C
Capital and date of charter.....	27 A	xvi	evidence before R. C.	69	R C
Work by, Romney tp.....	100 A	xvi	quality.....	220	v
Barnes, Alfred			Meneghinite in.....	208	vi
Evidence by, re royalties in Great			Mispickel in.....	205	ix
Britain.....	27	i	Rocks in, conglomerate.....	200	xi
E. B.	26	iii	dikes in basic.....	219	v
E. W.	57	vii	diorite.....	200	xi
James			limestone cut by calcite	206	xi
Evidence by, re royalties in Wales.	36	i	See also above, Marble.		
Thomas			mica-schists.....	101 B	xiii
Iron mining by, Algoma Mills..	25	vii	notes by Miller...202,	203	xi
Cook mine.....	31	viii	Stibnite in.....	210	ix
Dufferin mine.....	128	x	Tetrahedrite in.....	208	vi
Robertsville mine.	104	ix	Zinc-blende in.....	209	ix
	128	x	Barrielfield common, KINGSTON.		
oil=wells, ENNISKILLEN TP.,			Celestite on.....	196	ix
LAMBTON CO.			Leucoxene on.....	201	ix
Daily yield of.....	26	v	Section of, showing effect of ero-		
quarry, RYMAL, WENTWORTH			sive action.....	231	vi
CO.			Barron, John A.		
Quality of stone from.....	126 B	xiii	Evidence by, before R.C... 237, 396		R C
Barnet quarry, BRAESIDE, RENFREW			Brick Co.		
CO.			Capital and date of charter.....	29 A	xvi
Analysis of stone from.....	105 B	xiii			

	Page.	Vol.		Page.	Vol.
Barron location , GOULD TP., ALG.			Basalt.		
Chalcocite in.....	196	ix	Colorado, analysis.....	173	viii
Barrow , LANCASHIRE, ENGLAND.			Cross lake, Coleman tp.....	40 B	xiv
Apatite shipments to, 1884-1885.	443	R C	analysis.....	50, 51 B	xiv
Barry, J. W.			Description of.....	529 R C, 235	vi
Silver mining by, Paipoonge tp..	229	i	L. Superior.....	62	iii
Bay , SHERWOOD TP., RENFREW CO.			<i>Basilarchia arthemis.</i> See Banded Purple.		
Railway from, to Detlor, suggested.....	78 A	xiv	Basin, The , COLORADO.		
Stratified deposits near, altitude.	223	x	Analcite basalt from, analysis ...	173	viii
Bartleff, John			Baskerville, Dr. Charles		
Mica mining by, Ferguson tp....	280	v	Analyses by, of iron ores, L. Superior.....	163	ix
Bartlett, Charles	221	ix	Bass.		
E. T.	115	ix	Timagami dist., lakes.....	221	xi
G. F.	63, 294	xi	black		
J. H.			Rainy Lake dist., scarce.....	97	iv
Evidence by, before R. C.....	396	R C	lake , MCTAVISH TP., TH. B. D.		
Statement by, <i>re</i> Marmora iron works.....	15	ii	Rocks near.....	169, 170 A	xv
Barton, E. A.	59	ix	lakes , MATABITCHUAN RIVER, NIP.		
F.	140 x, 73	xi	Rise between, and L. Timiskaming.....	172	ix
J.	102 vii, 102	viii	Rabbit lake... ..	174	ix
S.			lake , N. OF ORILLIA, SIMCOE CO.		
Gold mine of, near Wawa lake.			Martite on.....	194	ii
	102, 195	vii		203	ix
	101, 102	viii	lake , S. ELMSLEY TP., LEEDS CO.		
notes.....	183 A	xv	Marl in.....	121 A	xiv
rocks.....	191 A	xv	lake , STURGEON RIVER, NIP.		
Licence to.....	115 ix, 140 x, 73	xi	Minor ref. to.....	35 B	xiv
	65	xii	Rocks in and near.....	41, 44 B	xiv
	48 A	xiii	lake , VERMILION RIVER, NIP.		
creek , HALDIMAND CO.			Rocks in and near.....	202 A	xiii
Gypsum on.....	53 B	xiii		73 C	xiv
mine , NEAR WAWA LAKE. See Barton, S.			Basswood.		
tp. , WENTWORTH CO.			Lake of the Woods.....	51	v
Cement rock from.....	165 A	xiv	Rainy river.....	117	iv
Bartram, David	54 A	xiii	lake , HUNTER ISLAND, ONT.		
Barwick tp. , R. R. D.....	167	v	Iron ore east of.....	144	R C
Barytes (BARITE, CAWK, ETC.)			Bastard, S. R.	254	xi
As an adulterant.....	177	i	tp. , LEEDS CO.		
Bedford tp.....	41 A	xv	Chalcopryite in.....	196	ix
Canada, production, 1886-87....	243	R C	Crystalline limestone in.....	72 B	xiii
1888.....	525	R C	Iron ore in.....	31, 32	ii
Crosby tps.....	53	R C	analysis.....	35	ii
Description of.....	222	vi	early mining.....	319	R C
	529	R C	notes by Murray....	34	ii
Determination of.....	205	vi	Mica mining in.....	104 A	xv
Hardness of.....	202	vi		89 A	xvi
Lake Superior.....	195	ix	Potsdam sandstone in, for building.....	80	R C
Caldwell pt.....	149	ix	Bat lake , MANITOU LAKE DIST., R. R. D.		
copper-bearing rocks.....	131	vi	Rocks on, granite.....	50	iv
Dorion tp.....	37, 38	R C	Batchawana bay , L. SUPERIOR.		
McKellar island.....	193 ii, 250	iv	Azurite on.....	193	ii
	276	v		195	ix
Port Arthur (near).....	190	ii	Boulder clay near.....	156	viii
Silver Mountain mines.....	57 B	xiv	Farming and fishing on.....	203	viii
Lanark co., Bathurst tp.....	53	R C	Geology of, notes by Coleman and Willmott.....	127, 128	viii
Ramsay tp.....	146	R C	Gold and silver on and near.....	26, 60, 203	R C
Methuen tp., Oak Lake road....	213	viii	Iron ore on.....	23	R C
Occurrences.....	195	ix	hematite.....	64	ii
Oso tp.....	53	R C	notes by Coleman. 161-163		ix
Specific gravity of.....	202	vi	189, 190, 201		x
United States, production, 1888.	525	R C	Lumbering on.....	203	viii
Uses of.....	222	vi			
Baryto-Celestite.					
Kingston (near).....	195	ix			

	Page.	Vol.		Page.	Vol.
Batchawana bay.—Con.			Bathurst tp.—Con.		
Lumbering on, pulpwood.....	206	vii	Plumbago in.....	181	R C
Manganite on.....	202	ix	Pyroxene in.....	207	ix
Rocks on and near.....	183	ix	Raphilite in.....	208	ix
	220 A	xiii	Tourmaline in.....	211	ix
Huronian.....	157, 163, 164	viii	exhibited at World's Fair.	190	ii
Keewenawan.....	168	viii	Tremolite in.....	211	ix
Nipigon.....	39	R C	Wilsonite in, analysis.....	211	ix
sandstone.....	40	R C	Batiscan river, CHAMPLAIN CO., QUE.		
Shoals in.....	68	iii	Blast furnace on.....	24	ii
Terraces north of, altitude.....	153	viii	Battery. See Stamp mill.		
	211	x	Battle, John		
lake, BATCHAWANA BAY, L. SUPERIOR.			Cement producing, 1901.....	32	xi
Iron ore on.....	314	xii	1902.....	28, 31	xii
mine, BATCHAWANA BAY, L. SUPERIOR.			1903.....	18 A	xiii
Rocks near.....	189	x	Plant of, notes on.....	164, 165 A	xiv
river, BATCHAWANA BAY, L. SUPERIOR.			See also Thorold Hydraulic Cement Works.		
Description by Coleman.....	128	viii	bay, L. OF THE WOODS.		
Jasper on.....	190	x	Rocks on.....	99	vi
Terraces at mouth of, height....	155	viii	lake, TEMPLETON TP., WRIGHT CO., QUE.		
Valley of, notes by Charlton..	200-203	viii	Apatite pockets on, showing banded structure.....	441	R C
Batchelor kiln.			ships.		
Notes and diagrams.....	126, 127 A	xiv	Armour of, nickel steel for.....		
Bate, T. B.	149	xi	176, 229, 230		i
Bates, George			147-163		ii
Gold mining by, L. of the Woods	40	vii	See also British Admiralty: Nickel-steel.		
M. W.			Pig-iron as ballast for.....	18	ii
Gold mining by, near Sawbill lake	132	vii	Bauerman, H.		
Bath, ERNESTOWN TP., ADDINGTON CO.			Notes by, on metallurgy of iron.		
Terrace near.....	241 A	xiii	472, 479		R C
island, L. OF THE WOODS.			Bauldrey, W. J.	102	viii
Gold mining on, 1896.....	49, 103	vi	115		ix
1897.....	40, 112	vii	73		xi
1898.....	60	viii	lake, MICHIPICOTEN DIV., ALG.		
Island Mining Co.			Iron ore belt near.....	173	xi
Incorporation of.....	7	vii	Minor ref. to.....	154	xi
Work by, L. of the Woods.....	49	vi	Morainic ridges and glacial striae near.....	185	xi
40, 112		vii	Rocks near.....	157, 161, 180-182	xi
Road quarry, BATH ROAD, KINGSTON.			Baultz, Herman.	208, 211, 212	iv
Analysis of limestone from.....	44 B	xiii	Paul.....	211	iv
Batholithes.			Bauxite.		
Ontario and United States...156,	157	vii	Hardness and specific gravity of.	201	vi
Bathurst tp., LANARK CO.			Bavaria, GERMANY.		
Apatite in.....	46	ii	Lithographic stone in.....	6 B	xiii
Barytes in.....	53	R C	analysis.....	182	ii
	195	ix	Peat drying processes in.....	193	i
Bytownite in.....	195	ix	used in, for moss litter....	212	ii
Calcareous vein in, cutting granite.....	103 B	xiii	on railways.....	202	i
Hornblende crystals in.....	199	ix	Pencil factories in.....	37	vi
Iron ore in.....	138	R C	Bawden, Gus. A.	94	viii
analysis.....	81	ii	Fred. J.	243	xi
hematite.....	199	ix	Joseph		
magnetite.....	46	ii	Acknowledgments to.....	83	v
	202	ix	Evidence by, before R. C. re:—		
mining.....	135	R C	apatite.....	170	R C
early.....	44	ii	free-trade.....	233	R C
notes by Morris.	137	R C	iron.....	52, 133	R C
See also Foley iron mine.			smelting.....	390	R C
Iron pyrites in.....	138	R C	mica.....	150	R C
Limestone in.....	46	ii	reference to same.....	341	R C
Mica mining in.....	290	xi	58		ii
Orthoclase in.....	205	ix	technical instruction.....	427	R C
Peristerite in.....	194	ii	Govt. drill lent to.....	174	iv
analysis.....	206	ix			

	Page.	Vol.
Bawden, Joseph—Con.		
Operating Glendower iron mine.	227	v
mica in Miller tp.	150	R C
	289	xi
Storrington tp.	133	x
Paper by, on Charcoal and Charcoal iron	468-486	R C
Baxter, Alexander		
Early mining by, L. Superior.	111, 209	v
Hon. J.		
Evidence by, before R. C.	55	R C
	54 B	xiii
Oil Co.		
Capital and date of charter.	27 A	xvi
Bay City, BAY CO., MICH.		
Sulphuric acid works at	184 A	xvi
Bay (OR MATTAGAMASHING) lake,		
MONTREAL RIVER, NIP.		
Argillites on	73	i
Cobalt ore near.	6 B	xiv
	11 A	xv
prospecting.	87 A	xv
Photo of part of	176, 177	vi
Smaltite on	11 A	xv
of Islands, BAD VERMILION		
LAKE, R. R. D.		
Cobalt bloom on	74	iv
	198	ix
	60 B	xiv
of Quinte, L. ONTARIO.		
Blast furnace on, <i>See</i> Deseronto.		
Cement works on	33	xii
(<i>See also</i> Belleville	17 A	xiii
Portland Cement Co.)	19 B	xiii
	133 A	xiv
Iroquois beach on	242, 243 A	xvi
Limestone quarries on.	27 B	xiii
Trenton formation on.	89 B	xiii
of Quinte railway.		
Limestones along, analyses.	27 B	xiii
St. Paul, CHARLEVOIX CO.,		
QUE.		
Nickel at	231	vii
Titanic iron ore at.	472	R C
Bays		
Origin of deep	48	R C
Bay street, TORONTO.	106	iii
Baycroft, J. A.	72 A	xiv
Bayfield, Capt. H. W.	194	R C
	127	vi
	131	viii
	29, 36 B	xiii
sound, MANITOULIN ISLAND.		
Rocks on and near.	78, 79 B	xiii
Bayham tp., ELGIN CO.		
Guelph formation in. <i>See</i> Eden.		
Limestone in, Corniferous. <i>See</i> Vienna.		
Bayley, W. S.	149, 170	ix
	202	x
Beaches. <i>See</i> Terraces.		
BC18 gold loc. <i>See</i> New Golden		
Twins mine.		
Beachville, OXFORD TP., OXFORD CO.		
Fossils from	153	xii
	92 B	xiii
Lime kilns at	14 A	xiii
Limestone at, analysis.	92 B	xiii
character	25 B	xiii

	Page.	Vol.
Beachville.—Con.		
Limestone.— <i>Con.</i>		
quarries,		
notes.	148, 149	xii
photo.	64, 65 B	xiii
Beamsville, CLINTON TP., LINCOLN		
CO.		
Brick and tile works at.	15 A	xiii
notes.	102	i
and photo	78 B	xv
Clay from, analysis	8 B	xv
Iroquois beach at	228 A	xiii
Limestone at, fossiliferous	73 B	xiii
quarrying	97	i
notes.	74 B	xiii
Medina shale at	7 B	xiv
for bricks.	128	iii
Beans.		
Mentioned as growing at :		
Abitibi lake	50 A	xvi
Fort Mattagami.	121 A	xiii
Lac des Mille Lacs	114	v
Lake of the Woods.	105	vi
Mississagi river	164	xii
Moose Factory.	107	iv
Rainy river.	163	v
Bear.		
Hinterland, The	133	iv
Hudson Bay slope.	178	vi
Lake Huron slope.	170	vi
Matawin valley	129	v
Mattagami valley	131 A	xv
Michipicoten div.	297 A	xiv
	200 A	xv
Mississagi river	172	xii
Moose River basin	178 A	xiii
Nipigon Lake dist.	130 A	xvi
black		
Abitibi dist.	127 A	xiii
	253 A	xiv
Abitibi river, south of.	189	xii
Rainy Lake dist., scarce	97	iv
polar		
Hudson bay and strait.	133	iv
bay, L. OF THE WOODS.		
Rocks on	99	vi
creek, NEAR BRULÉ STATION,		
R. R. D.	73	viii
island, TIMAGAMI LAKE, NIP.		
H. B. C. post on.	58	R C
	161	x
lake, ENGLISH RIVER, R. R. D.		
Geology of, and vicinity.	163	vii
Pleistocene deposits near	172	vii
Rocks on, dolomite	207 A	xvi
schist	147	xi
Timber west of.	180	vii
lake, McVITTIE AND MCGARRY		
TPS., NIP.		
Map of	202, 203 A	xvi
lake, MICHIPICOTEN DIV., ALG.		
Minor ref. to.	179 A	xv
Morainic deposits near.	192 A	xv
Rocks near	205 A	xv
lake, NEAR WHISKEY LAKE,		
ALG.		
Copper mining near	65, 67 A	xiv
Galena near, argentiferous.	70 A	xv
Lake mica mine, LOUGHBORO		
TP., FRONTENAC CO.		

	Page.	Vol.
Bear lake mica mine.—Con.		
Notes on, 1900.....	135	x
1901.....	288, 289	xi
1902.....	126	xii
1905.....	103 A	xv
mt., PUKASKWA RIVER, L. SUPERIOR.	281 A	xiv
pass, HALKIRK TP., R. R. D..	134	xi
passage, RAINY LAKE, R. R. D.		
Rocks in.....	52, 77,	iv
Veins in, character.....	59	iv
pyrites claim, NEAR GOUDREAU LAKE, MICHIPICOTEN DIV.		
Notes on.....	186, 187 A	xv
	179, 180 A	xvi
Rocks in.....	192 A	xvi
river, L. SUPERIOR, ALG..	282, 285 A	xiv
=skin lake, CLEAR CREEK, WINDIGOKAN, LAKE, TH. B.D.	138 A	xvi
Beatrice (or SHEPPARD) nickel mine, BLEZARD TP., NIP.		
Idle, 1894.....	249	iv
Name of, changed.....	190	iii
Notes on, 1892.....	249	ii
1893.....	190	iii
Whartonite from, analysis..	169, 170	ii
Beattie, A. F.	74 A	xiii
Beatty, James	45	x
John	206	v
S. G.	16	v
W. R. See Beatty and Wilcox mine.		
Walter	212	x
Beatty and Wilcox copper mine, COWPER TP., P. S. D.		
Accident at.....	32, 33	ix
Notes on, 1897.....	88, 93	vii
1898.....	260, 261	viii
1899.....	100, 167	ix
1900.....	121	x
Operating, 1903.....	94 A	xiii
1904.....	80 A	xiv
Rocks of, petrography.....	180, 181	ix
Shut down.....	37	x
Summer mining class at.....	282	viii
Beauce co., QUE.		
Platinum in.....	207	vi
Scheelite in.....	217	vi
Zinc-blende in.....	210	vi
Beaudro, G.	115	ix
Beauharnois, BEAUHARNOIS CO., QUE.		
Fossil tracks at.....	40	R C
tp., QUE.		
Peat in. See Valleyfield.		
Beaulieu, John	50	xi
Beauport, QUEBEC CO., QUE.		
Anthracite at.....	6 Bull.	ii
Beaver.		
Abitibi dist.....	178, 183	viii
	189	xii
	127 A	xiii
	242 A	xiv
Hinterland, The.....	133	iv
Hudson Bay slope.....	178	vi
Isle Parisienne, L. Superior, experimental farm for.....	110	v
Lake of Bays.....	166	vii
Lake of the Woods.....	116, 118	vii
Michipicoten div.....	297 A	xiv

Beaver.—Con.

	Page.	Vol.
Mississagi valley.....	172	xii
Niven's base line, Alg., almost extinct.....	142	ix
Nipigon Lake dist. (reported) ..	139 A	xvi
Timagami Lake dist.....	58	R C
Cement Co.		
Merged in Canadian Portland Co.	16	x
	136 A	xiv
creek, CONMEE TP., TH. B. D.		
Pyrites on.....	172 A	xvi
dams.		
Abitibi dist.....	127 A	xiii
Caribou island, L. Superior.....	111	v
Foy tp.....	201 A	xiii
	70 C	xiv
Jarvis lake.....	105 A	xiii
Mattagami valley.....	190, 192 A	xiv
	131 A	xv
Pukaskwa river.....	137	viii
Sinclair mt. (near).....	178	vi
inlet, L. OF THE WOODS.		
Description of.....	116	vii
Pyroxenite from, petrography ..	146	vii
lake, ADDINGTON CO.		
Contact of Laurentian-Silurian on	27 B	xiii
lake, LITTLE TP., ALG.		
Boulder clay on.....	187, 194 A	xiv
Park's description of, ref. to....	197 A	xiv
meadows.		
Creighton tp.....	45	iii
Mining and Mica Co.		
Exhibits of, at Pan-American...	25 A	xv
Owners, Beaver silver mine, Coleman tp.....	86 A	xv
Milling Co.		
Capital and date of charter.....	7	vii
Oil and Gas Co.		
Capital and date of charter.....	11	xi
Work by, in Dutton field.....	108 A	xiv
portage, MISSINAIBI RIVER, ALG.		
	195	viii
river, L. SIMCOE.		
Calcareous tufa on.....	110 B	xiii
Clinton formation on.....	48 B	xiii
Marl on.....	51 B	xiii
Niagara formation on.....	49, 50 B	xiii
Trenton formation on.....	89 B	xiii
river, SEINE RIVER, R. R. D.		
Description of Seine river near..	151	v
Silver Cobalt Mg. Co.		
Capital and date of charter.....	27 A	xvi
silver mine, COLEMAN TP., NIP.		
Native silver in.....	86 A	xv
silver mine, O'CONNOR TP., TH. B. D.		
Animikie formation in.....	35	R C
	237	iv
Argentite in.....	194	ix
Asbestos in.....	193	ii
mountain leather.....	205	ix
Calcite in.....	195	ix
Controlled by Algoma Mg. Co..	96	xii
Copper in, native.....	197	ix
Dike in.....	67	R C
Evidence <i>re</i> , before R. C.	63, 196-201,	R C
Fault in.....	208	iv
	237	

	Page.	Vol.
Beaver silver mine.—Con.		
Harmstone in.....	199	ix
Inspector's report on, 1891.....	226	i
Minor reference to	5 A	xv
Natural gas in.....	54 B	xiv
Notes on, by Merritt.....	192	R C
Roland.....	225	i
Operations in, suspended, 1892..	239	ii
unprofitable.....	177	i
Output of, to 1888.....	208	R C
Saponite in	208	ix
	52 B	xiv
Section of.....	193	R C
Silver in, native.....	207	vi
Timber near	114	ii
Vein in, course of... 33, 62, 198,	203	R C
Beaverhead island, MANITOU LAKE,		
R. R. D.		
Gold mining S. of.....	99	x
<i>See also</i> Royal Sovereign mine.		
Iron on	136	xi
Beaverhouse lake, NIP. <i>See</i> Misemikowish lake.		
Beaverton, THORA TP., ONTARIO CO.		
Brickyard at, notes and photo. 87, 88 B	xv	
Clay from, for Raven Lake Portland Cement Co.....	157 A	xiv
Peat at, analysis	202	xii
fuel from	25 A	xvi
cost of making.....	225	xii
method of working		
210-214, 217, 218, 224	xii	
notes	204	xii
paper from.....	35	xii
plant, notes.....	22	ix
27, 29 A	xiii	
photo	208, 209	xii
output	23 A	xiv
	24 A	xv
Beaverton Brick and Tile Co.		
Brickyard of, notes and photos 87, 88 B	xv	
clay for, analysis.....	15 B	xv
Bechtel, Byron E. <i>See</i> Bechtels, Ltd.		
Bechtels, Ltd.		
Brick works of, Waterloo :—		
clay for, analysis.....	14 B	xv
machinery..... 43, 46, 49, 102,	103 B	xv
notes.....	102, 103 B	xv
producing, 1902	29	xii
Capital and date of charter	27 A	xvi
Beck (SILVER HARBOUR) silver mine,		
McGREGOR TP., TH. B. D.		
Notes on, by Bell	34	R C
Veins in, character.....	198	R C
	238	iv
course	33	R C
Becker, O.	115	ix
	140	x
	48 A	xiii
Becket, E. C.		
Brickyard of, Orwell.....	62 B	xv
Beckwith tp., LANARK CO.		
Calcareous formation in.....	70 B	xiii
Lead mining in. <i>See</i> Carleton Place, and Ramsay mine.		
Peat in	190	i
Becquerel, E.		
Galvanic nickelling by	158	ii
Becraft mt., COLUMBIA CO., N. Y. ... 190 A	xiii	

	Page.	Vol.
Bedded veins.		
Definition of.....	253	v
Bedford, Jack.	154, 155	v
Bedford iron mine, BEDFORD TP., FRONTENAC CO.		
Notes on, 1898.....	30, 31	viii
mills, BEDFORD TP., FRONTENAC CO.		
Apatite mining near. <i>See</i> Sharbot lake.		
Barytes near.....	41 A	xv
Mining Co.		
Capital and date of charter.....	7	vii
Notes on, 1890, by the manager.	134	R C
Work by	103	ix
quarry, ROSS TP., RENFREW CO.		
Analysis of limestone from	106 B	xiii
station, BEDFORD MILLS, FRONTENAC CO.		
Feldspar near.....	26	x
	90 A	xiii
Limestone near, analysis	45 B	xiii
Scapolite rocks near.....	229	viii
microphoto.. 216, 217	viii	
tp., FRONTENAC CO.		
Apatite in	194	ix
mining, 1891.....	239, 245	i
1892.....	250, 251	ii
evidence before		
R. C. 134, 175-176	R C	
<i>See also</i> Bobs lake.		
with crystalline limestone.....	46	ii
Calcite in	195	ix
Crystalline limestone in	47	ii
Feldspar in, mining, 1900	26	x
1901	39	xi
1902		
37, 137, 138	xii	
1903	21 A	xiii
1904	19 A	xiv
1905..19, 99-101 A	xv	
prospecting	81-83 A	xiv
<i>See also</i> Richardson		
feldspar mine.		
Galena in	198	ix
Graphite in	52, 134, 181	R C
	199	ix
Hornblende in.....	199	ix
Iron ore in	134	R C
	31, 32, 36, 37	ii
analysis	54, 55	ii
exhibited in London ...	33	ii
World's Fair	81	ii
hematite	199	ix
magnetite.....	52	R C
	46, 47	ii
	288	viii
	202	ix
mining	103	ix
<i>See also</i> Glendower mine.		
Howse mine.		
Wolf lake.		
notes by Vennor	43	ii
Iron pyrites in.....	207	ix
	150 A	xvi

	Page.	Vol.		Page.	Vol.
Bedford tp.—Con.			Belgium.—Con.		
Mica in.....	150	R C	Cement exports to, 1900.....	15	x
mining	23 A	xvi	1901.....	33	xi
1891.....	245	i	1902.....	34	xii
1900.....	133	x	1903.....	35	xli
1903.....	92 A	xiii	Iron and steel production, 1888.	224	R C
1904.....	86 A	xiv	Mining laws of.....	298	R C
Pyroxene in.....	207	ix	schools in, location of... 420		R C
Raphilite in	208	ix	Nickel coinage in.....	161	ii
Serpentine in.....	209	ix	composition.....	164 C	xiv
Vesuvianite in.....	211	ix	184.....	184	iv
Bedshiel, BERWICKSHIRE, SCOTLAND.	187	i	Bell, A.	105	xi
Beebe, James C.			Rev. Andrew	218	i
Manager, Emperor gold mine. 45, 84		viii	B. T. A.		
Empress gold mine... 82		ix	Evidence by, before R. C., re:		
W. D.	115	ix	apatite	177	R C
".....	140	x	mineral lands.....	313	R C
".....	73	xi	technical education	423	R C
".....	65	xii	Minor ref. to.....	210	ii
".....	48 A	xiii	Sir Isaac Lowthian.		
Beech.			Data by, re iron		
Heating power of.....	54 B	xvi	smelting ... 329, 341, 358, 361, 385		R C
Hungary, gasifying of, for iron			84.....		ii
smelting	484	R C	Evidence by, re royalties in Gt.		
Rainy river.....	207	v	Britain.....	18	i
Bee-hive gold mine, MANITOU IS-			ref. to.....	507	R C
LAND, MANITOU LAKE, R. R. D.	77	vii	Minor ref. to.....	321	R C
Beemer, H. J.	86, 87	ix	Notes by, on metallurgy of		
Beer.			steel.... 362, 365, 369		R C
Arsenical poisoning caused by... 121		xi	smelting with charcoal 483		R C
Beets,			peat.... 207		i
Fort Mattagami.....	121 A	xiii	puddling with Cort's		
Lac des Mille Lacs.....	114	v	invention.....	359	R C
Lake of the Woods.....	105	vi	Views of, on practical scientific		
Rainy river.....	163	v	education	429, 430	R C
Beetle, ash-coloured blister.			J. Mackintosh		
Abitibi dist.....	129 A	xiii	Criticized re geological nomen-		
Black blister.			clature of Michipicoten div... 174 A		xv
Abitibi dist.....	129 A	xiii	Reports by:		
Buttercup oil.			Michipicoten div.....	278-355 A	xiv
Abitibi dist.....	129 A	xiii	ref. to.....	12 A	xiv
Potato. See Colorado beetle.			15, 173, 174 A		xv
Beeton, TECUMSETH TP., SIMCOE CO.			143 A		xvi
Brickyard at, notes	99 B	xv	Moose River basin.....	135-197 A	xiii
Beet-root sugar.			Work by, 1903	12 A	xiii
Lime used in making.....	2, 3 B	xiii	J. R.	227	iv
Begg, W. A.			238.....		v
Sketch map by, of Coleman tp. 9, 10 B		xiv	Prof. James		
ref. to	37 B	xiv	Tin found by, Marmora dist.... 36		iv
Work by, 1905.....	156 A	xv	James (ELGIN CO.)	60	i
Beggs, T. J.	65	xii	James (LANARK CO.)		
".....	48	xiii	Apatite mining by, Storrington		
Beharriel, F. J.	85	x	tp.....	173	R C
".....	111	ix	239.....		i
Behenna, George H.	187	iii	See also Bell apatite mine.		
Belden, Denison & Co.			James (RENFREW CO.)		
Quarrying by, Niagara and Stam-			Evidence before Royal Com. re:		
ford tps.	95, 96	i	apatite	53, 173	R C
".....	74, 119 B	xiii	ignorance concerning mines ..	427	R C
Belfast & Northern Counties Ry.			iron	141	R C
Tests by, on peat as fuel.....	203	i	Iron claims of, Renfrew co., notes		
Belfountain road, PEEL CO. See Belle-			by Merritt.....	129	R C
fontaine.			ore from, at World's		
Belgian Bank.			Fair.....	79	ii
Atikokan iron deposits leased by	236	i	M. E. See Bell and Scott.		
191.....	191	iii	Peter See Peter Bell Iron Co.		
Belgium.			Dr. Robert		
"Balance of trade" against, 1868-			Altitude of Onaping lake deter-		
1886	397	R C	mined by.....	156	x

	Page.	Vol.		Page.	Vol.
Bell, Dr. Robert.—Con.			Bell, Dr. Robert.—Con.		
Appointed on Royal Commission	10	R C	Brockville (near)	221	x
Carbonaceous shales found by,			Hudson Bay region	93	v
Abitibi river	159	A xiii		200, 215	x
Coal reported by, Long island,			Lac Seul	61	v
Lab.	126	iv	Lake Superior, north of	64, 65	ii
Missinaibi riv.	125	iv		79	v
Northern				157, 167	viii
Ont.	161, 162	A xiii		288	A xiv
Criticized <i>re</i> Sudbury map	242	xii	Manitoulin island	75, 76	B xiii
Description by, of				72	A xv
iron ore, Mattagami river	77	ii	Mattagami valley	117	A xv
James bay	130	iv	Mattawa river	81	B xiii
ore body, Blezard mine	254, 255	xii	Michipicoten div.	80	iii
	56	C xiv		187, 189	vii
Extract from rep. by, on explora-				162	ix
tions between L. Huron and				279	A xiv
James bay	137	vi	Minnitaki lake	57	v
Geological nomenclature by	4	R C	Moose River basin	127	iv
Glossary by, of geological and				186	vii
mining terms	528-545	R C		136, 194	viii
Iron ore found by:			Nipigon lake	213	x
Mattagami river	52	ii		105	A xvi
	9	A xiii	Parry Sound dist.	166	ix
Wabigoon Lake dist.	136	xi	Sudbury dist.	3, 6	Bull. ii
Letter by (and others) as Royal				159, 161, 168, 170	vi
Commissioner	xxiv	R C		136, 137, 158	vii
Limestone found by, Mattagami				160-162, 206	x
river	152	A xiii		235-239, 276, 278	xii
Notes by, on:				1-5	C xiv
country N. of L. Superior	112	iv	Report by, and others, on Pre-		
copper in Huronian belt	234	i	Cambrian nomenclature	269-277	A xiv
iron ores, Kaministiquia river	69	ii	Temperature of Hudson Bay		
Mattagami river	126	iv	waters given by	107	iv
Pic river	313	xii	Timber tracts discovered by, Not-		
Huronian gold mine	124	v	taway basin, Que.	204	v
Kenogami valley	112	iv	Victoria silver mine examined by	123	viii
Kenora	169	v	Views of, on:		
limestone near Parry harbour	95	B xiii	Archæan rocks of Ont.	245	v
magnetic separator, early use of	491	R C	Boring for gas at Mimico	138	i
Moose river	114	iv	Stephen, H. P.	22	xi
agricultural land along	108	iv	Bros.		
climate	106	iv	Brickyards of:		
natural gas at Little Current	140	i	Drew	105	B xv
Ombabika river	202	v	Paisley, analysis of clay	15	B xv
rocks of Rutherford tp.	30, 31	B xiii	notes and photo	59	B xv
Sandy lake, R. R. d.	55	v	Toronto	28	xii
Sudbury dist., ores	233	i		108	B xv
surveying diffi-			and Scott.		
culties	171	i	Iron mining by, Michipicoten		
Vermilion mine	179	ii	div.	104	x
timber of the Hinterland	120	iv		104	xii
Papers by, on			apatite mine, STORRINGTON TP.,		
Geology of Ontario	1-52	R C	FRONTENAC CO.		
ref. to	10, 13	R C	Rocks of	438, 441	R C
Laurentian and Huronian sys-			river, MATTAGAMI LAKE, QUE.		
tems of L. Huron	63-94	i	Timber in valley of	204	v
Laurentian rocks	6-10	R C	Bella Donna lake, S. E. ALGOMA.		
	247-249	v	Nomenclature of	160	xii
Life of Alexander Murray	218-222	i	Bellamy Edward	107	v
Minerals in the Sudbury			Belle river, MAIDSTONE TP., ESSEX CO.		
dist.	433-436	R C	Corniferous formation near,		
Photo of	277	A xiv	thickness	47	R C
	135	C xiv	Belleau, E.	102	vii
Reference to paper by, on petrol-			F. J.	124	vii
eum field of Canada	115	i	I. N.	102	vii
References to surveys by:					
Abitibi river	142	A xiii			
Atikokan river	70	ii			

	Page.	Vol.		Page.	Vol.
Bellefontaine, CALEDON TP., PEEL CO.			Belmont gold mine.—Con.		
Limestone near	95	B xiii	Photos of	128, 129	x
Cambro-Silurian.....	39	B xiii	Plan of.....	199	xi
Sandstone quarries near	98	i	Plant of, photos	112, 113	xii
Bellegarde, HAUTE SAVOIE, FRANCE.			Producing, 1903.....	5	A xiii
Water power at.....	485	R C	Purchased by Cordova Exp. Co..	88	vii
Bellerophon.			Quartz of, character.....	37	iv
Kwataboahagan river, photo of,			Rocks of	205, 206	xi
in limestone.....	192, 193	A xiii	diorite.....	39	iv
“ <i>pelops.</i>			Summer mining class at	52-54	A xiii
Kwataboahagan river, notes by			Water power for, from Mada-		
Parks	187	A x ii	waska river.....	27	xi
Belleville, THURLOW TP., HASTINGS				14	A xv
CO.			Worked by the South African		
Assay office at. <i>See</i> Provincial			Mg. Co.....	192	ii
Assay office.			Gold Mines Co.		
Beach from, to Gananoque	241	A xiii	Capital and date of charter.....	38	A xiii
Boulder pavement near.....	240	A xiii	Floated by Cordova Expl. Co. 14,	111	xii
Brick-yard in.....	69	A xv	iron mine, CROW LAKE, BEL-		
analysis of clay used in.....	17	A xv	MONT TP.		
Cement plant near	59	B xiii	<i>See</i> Ledyard iron mine.		
Character of country around....	222	x	lake, PETERBOROUGH CO.		
Limestone near, analysis.....	61, 62	B xiii	Iron ore on and near.....	42	ii
quarried. <i>See</i>			specular	39	ii
Point Ann.			Limestone on.....	97	B xiii
Trenton.....	27	B xiii	tp., PETERBOROUGH CO.		
Marl in	121	A xiv	Gold in.....	199	ix
Portland Cement Co.			mining. <i>See</i> Belmont gold		
Capital and date of charter	37	A xiii	mine.		
Clays and marls used by, analyses	183	A xiv	Iron ore in	36, 39	ii
Notes on, 1902.....	33	xii	exhibited at World's		
1905	133, 135	A xiv	Fair.....	80, 81	ii
objects and machinery	19	B xiii	magnetite, analysis....	60	ii
Plant of, erection	17	A xiii		202	ix
	18	A xiv	quality.....	191	ii
	17	A xv	mining, early	16	ii
Pottery Co.	29	xii	notes by Blue 59,60		ii
Bellhouse, T. W.	127	xi	notes by Vennor	41	ii
Bellin, N.			<i>See also</i> Blairton iron		
Map by, of Canada, 1744.....	12, 13	B xiv	mine, Ledyard iron		
Belmont Bessemer Ore Co.			mine.		
Capital and date of charter.....	7	vii	Molybdenite from, specimen....	57	xii
Intention of, 1894.....	249	iv	Old name of	15	ii
Lessees of Belmont iron mine...	59	ii	Serpentine in.....	209	ix
Work by, Belmont mine	236	i	Belmore bay, STURGEON LAKE, TH.		
Marinora village	224	i	B. AND R. R. D.	37	xii
gold mine, CORDOVA, BELMONT			Bay Gold Mg. Co.		
TP., PETERBOROUGH CO.			Capital and date of charter.....	37	A xiii
Accidents at.....	47, 48	x	Work by, Sturgeon lake.....	60	A xvi
	82, 83	xi	<i>Beluga catodon.</i>		
	40, 41	A xiii	Cornwall (near).....	217, 219, 224	x
Exhibit of, at Pan-American			Belyea, C. W.		
Exhibition	85	xi	Recorder, Kenora Mg. div.....	36	A xvi
Idle, 1894.....	236	iv	Report by, on Kenora Mg. div. 43,	44	A xvi
1903.....	93	A xiii	Bembrose, Thomas		
1904.....	76	A xiv	Brick-yard of, Beeton, notes....	99	B xv
1905.....	88	A xv	Ben Allen Portland Cement Co.		
Mispickel absent in	38	iv	Capital and date of charter.....	27	A xvi
Notes on, 1891.....	224	i	Bendigo (LATE SANDHURST), VIC.,		
1892.....	237	ii	AUSTRALIA.		
1897.....	89	vii	School of mines at	521	R C
1898.....	40, 41	viii	Benfield, Thomas		
1899.....	92, 93	ix	Deloro gold mine leased to.....	264	v
1900.....	114, 115	x	Bengal pres., E. INDIA.		
1901.....	15, 63, 234-236	xi	Mica from, production, 1900....	28	xi
full description 188-192		xi	Benjamin, Felix	135	x
1902.....	14, 111, 112	xii	Benmiller, COLBORNE TP., HURON CO.		
by Blue	47-50	iii	Brick-yard in.....	70	B xv
	22	viii			

	Page.	Vol.		Page.	Vol.
Benn, Ira L.			Berger, Neil		
Work by, 1900.....	160	x	Discoverer of Golden Star mine.	73	vii
See also Benn cobalt mine.			Manager, Randolph mine.....	272	viii
Leslie				68	ix
Olden zinc mine discovered by..	54 A	xiii		83, 94	x
cobalt mine , BUCKE TP., NIP.			Bergman, Torbern Olof		
Boring in, with Govt. drill... 27, 28 A	xv		Nickel prepared by, 1775	163 c	xiv
Cobaltite in, auriferous	23, 31 B	xiv	Berlin, GERMANY.		
	51 A	xvi	Mining school at	513	R C
Sale of	11 A	xv	Peat near	213	ii
Work in, 1905	86 A	xv	notes	191	i
Bennett, George			Berlin, N. WATERLOO TP., WATERLOO		
Corundum discovered by, Methuen tp.....	63	vi	CO.		
See also Bennett corundum mine.			Brickyard in, notes	104 B	xv
Gold mining by, Balfour tp.....	236	ii	Bernays, J.		
Michipicoten			Nickel plant built by, in England.	119	viii
div.	102	vii	Berndorf, GERMANY.		
Zinc mining by, Balfour tp.....	33	viii	German silver ware made at	176 c	xiv
corundum mine , METHUEN			Bernier, Joseph	56	xi
TP., PETERBOROUGH CO.			Berries. See also the various species.		
Mica in corundum of, photo. 216, 217		viii	Abitibi dist	188	xii
Notes on, by Miller.....	228	vii		253 A	xiv
	206-211	viii	Service. See Service berry.		
lake , BATHURST TP., LANARK			Berry island, RAINY LAKE, R.R.D.		
CO.			Rocks on	91	iv
Hematite on	138	R C	Berryman, J. B.	64	R C
tp., R. R. D.			William	54	iii
Gold mining in. See Independence mine.			Berry's wharf, NEAR OTTAWA.		
Location of, description by			Cambro-Silurian near	37, 38 B	xiii
Proudfoot	152	v	Berthelot, Pierre Eugene Marcel-		
Bennetts, Francis	77	vii	lin.		
Benny Bros.	119	ii	Experiments by, on carbide of		
Benson, Andrew			potassium	153	iv
Gold mine of, Jaffray tp., 49, 108, 109		vi	Views of, re origin of natural gas.	141	i
	57	vii		91, 92 A	xiv
fahlbands in.....	118	vi	Berthiaume, John	55, 57	xi
Henry			Berthier co., QUE.		
Gold prospecting by, Jaffray tp.	186	v	Beryl and samarskite in.....	237	vii
iron mine , PORT HENRY, N. Y.			Bertie Natural Gas Co.		
Ball-Norton separator used in ...	328	xii	Notes on, 1890	135	i
results....	339	xii	tp., WELLAND CO.		
Bentinck tp., GREY CO.			Limestone quarrying in.....	119 B	xiii
Cement works in, See Durham,			Natural gas in	135	i
and Hanover.				91 A	xiv
Guelph formation in	50, 121 B	xiii		108 A	xv
Limestone quarrying in. See Durham.				102 A	xiv
Marl in, analysis.....	50, 51 B	xiii	logs of borings	102 A	xiv
Bentley, (?)			Rocks in, Corniferous.....	46	R C
Manager, Marmora iron works,			Lower Helderberg....	46	R C
1866	322, 331	R C		118 B	xiii
Norman S.	132	x	Onondaga.....	117 B	xiii
Benzine.			Bertram Engine Co.		
As a by-product of petroleum.			Gold mining by, Regina bay....	113	vii
	158, 162, 165	R C	Berwick, FINCH TP., STORMONT CO.		
Price of, 1890	164	R C	Limestone near	110 B	xiii
Beraud, M.	212	ii	Chazy.....	47 B	xiii
Berckau.			Beryl.		
Cost given by, of making colour-			Composition and crystallization of.	228	vi
glass in Saxony	77 B	xiv	Hardness of.....	202	vi
Berg Co.	46 B	xv	Lyndoch tp., notes by Miller.	234-237	vii
Bergakademie, Freiberg. See Frei-			photo.....	222, 223	vii
berg.			Occurrences, Canada.	237	vii
			Ontario	195	vi
			Rainy lake	193	ii
			Rainy river	190	ii
			Specific gravity of.....	202	vi
			Bessemer, Sir Henry		
			See also Bessemer process.		
			Nickel alloys made by.....	165 c	xiv
			Notes by, on making crucible		
			steel.....	471	R C

	Page.	Vol.		Page.	Vol.
Bessemer Iron Mines of Ontario.			Bexley tp., VICTORIA CO.		
Exhibits of, at Buffalo.....	25	A XV	Cement works in. <i>See</i> Victoria Road.		
matte.			Dolomite in, analysis.....	114	B xiii
Analysis of unroasted.....	106	viii	<i>See also</i> Cobocok.		
ore.			Peat works in. <i>See</i> Trent Valley		
Price of, at Cleveland, U.S., 1890, 234		R C	Peat Fuel Co.		
process.			Trenton formation in.	113	B xiii
Description of.....	362-365	R C	Bey, John.....	234	vii
Effect of, on iron and steel indus- try.....	84, 126, 127	ii	Beyrichite.		
Minor ref. to.....	xxi	R C	Composition of.....	170	ii
Steel from, production:—			B G 24, 25, 36, 37 gold locs. <i>See</i>		
Great Britain, 1888.....	224	R C	Pettigrew mine.		
United States, 1887-88.	224, 468	R C	43, 45 gold locs., ISLAND		
Besserer grove, NEAR OTTAWA.			FALLS REG., SEINE RIVER....	81	ix
Fossils from.....	225	X	155-159 gold locs., STURGEON		
wharf, NEAR OTTAWA.			LAKE. TH. R. D.....	40	x
Beach near, altitude.....	227	X	138 gold loc. <i>See</i> Symmes, H.		
Leda clay at.....	215, 216	X	D.		
Best, James			170 gold loc., COUTURE LAKE,		
Granite quarrying by, near Ban- croft	107	A XV	TH. B. D.....	86	xii
Limestone quarry of. N. Cayuga tp.....	146	xii	Bibliography.		
analysis... ..	152	xii	Arsenic.....	121	xi
55, 118 B xiii			Corundum.....	230	vii
notes.	55	B xiii	Magnetic concentration of iron ores.....	337-342	xil
Owner, Jeffry mine, Faraday tp.	102	xi	Michipicoten dist.....	186	vii
Bethea lake, ABITIBI DIST.			280 A xiv		
Jasper pebble found near	115	A xiii	Bickerdike, Robert	59	ix
Minor ref. to.....	248	A xiv	Bicycles.		
Notes on, by Kay.....	111, 112	A xiii	Nickel-steel for	166	C xiv
Rocks on, and near	114, 119	A xiii	Biddulph tp., MIDDLESEX CO.		
dolerites.	116	A xiii	Morainic hills in. <i>See</i> Lucan.		
Bethlehem, PA.			<i>Bidens cernua,</i>		
Furnaces at, reason for location..	127	ii	Abitibi Lake dist.	241	A xiv
<i>See also</i> Bethlehem Iron Co.			Biella, PIEDMONT, ITALY.		
Iron Co.			Nickel in auriferous sands near..	151	C xiv
Armour plate of.....	139	ii	Biernes, J.	102	viii
156, 157, 162, 163		iii	Big bay, FRONTENAC CO.		
cost	144	ii	Red granite near.....	44	B xiii
ordered by Russia.			Cedar creek, ABITIBI RIVER.		
186 196		iv	Coal measures at mouth of.....	169	A xiii
tests on.....	136, 137	ii	Notes on, by Parks.....	189	viii
Correspondence between, and S.			Surveys on, ref. to.....	138	A xiii
J. Ritchie.	107, 108	ii	Cedar lake, BURLEIGH TP.,		
Forgings made by, quality of....	189	iv	PETERBORO' CO.		
Furnaces of, on Lehigh river....	118	ii	Rocks in.....	213	viii
Iron prospecting by, Matawin river.....	276	v	Chief lake, PONTIAC CO., QUE.	228	xi
Mining Co.			creek, MIDDLETON TP., NOR-		
Iron mining by, Black lake, Bed- ford tp.	134	R C	FOLK CO.		
Betteley, C. E. R.	82	X	Limestone in.....	88	B xiii
<i>Betula glandulosa. <i>See</i> Birch, dwarf</i>			Dan arsenic mine, NET LAKE,		
" <i>lutea. <i>See</i> Birch, yellow</i>			TIMAGAMI DIST., NIP.		
" <i>papyrifera. <i>See</i> Birch, paper</i>			Mill and concentrating plant at..	23	A xv
" <i>pumilla.</i>			photo ...	87	A xv
Abitibi dist.....	241	A xiv	Mispickel from, analysis.....	23	B xiv
Beven, George			Notes on, 1905.....	87, 88	A xv
Brick-making by, Hamilton.....	106	B xv	by Coleman.....	173	ix
Beveridge lake, LOWER RIDEAU			105, 106		xi
LAKE.			by Miller	179	x
Bog iron ore on	142	R C	Striae on, direction.....	178	ix
Bewdley, HAMILTON TP., NORTHUM-			Working, 1904	74	A xiv
BERLAND CO.....	233	A xiii	1905.....	30	B xiv
			Dick gold mine, MOSHER BAY,		
			MANITOU LAKE, R. R. D.....	123	vii
			Dipper mine, NEAR MASSAGA		
			LAKE, FRONTENAC CO.		
			Notes on, 1905.....	89, 90	A xv

	Page.	Vol.
Big Dipper Mining and Milling Co.		
Exhibits of, at Buffalo.....	25 A	xv
Work by, 1905.....	89 A	xv
Ellen gold claim , NEAR MOORE BAY, L. OF THE WOODS.....	21	iii
Forks , RAINY LAKE, U.S.....	164	v
Four copper mine , FOLEY TP., P. S. D.....		
Notes on, by Coleman.....	167, 168	ix
Grassy peak , JUDITH MT., Mo.....	190	ix
Harry silver mine , PORT ARTHUR REG., TH. B. D.....	199	R C
island , KESAGAMI LAKE, NIP.....	148 A	xiii
island , KABENUNG LAKE, MICHIPICOTEN DIV., ALG.....		
Minor ref. to.....	292 A	xiv
Monolith near.....	329 A	xiv
Rocks on.....	348 A	xiv
Jim iron mine , GRATTAN TP., RENFREW CO.....		
Notes on, 1902.....	113, 114	xii
Levack mine . See Levack properties.		
Marsh lake , GRAND PORTAGE, MICHIPICOTEN DIV., ALG.....		
Description of.....	293 A	xiv
Master gold mine , ANZHEKUMMING LAKE, R. R. D.....		
Accident at, 1902.....	46	xii
	39, 40 A	xiii
Idle, 1906.....	58 A	xvi
Minor ref. to.....	14	xii
Notes on, 1900.....	98	x
1901.....	245, 246	x
1903.....	68 A	xiii
1904.....	54 A	xiv
1905.....	52 A	xv
Operated by Consolidated Mines Co.....	16	xiii
Photo.....	256, 257	xi
Producing, 1902.....	15	xii
1903.....	4 A	xiii
Summer mining class at.....	55 A	xiii
Master Gold Mining Co.		
See also Big Master gold mine.		
Capital and date of charter.....	25 A	xiv
Mountain lake , W. OF L. NIP1-GON, TH. B. D.....		
Iron ore on.....	314	xii
Ore bed , BELMONT TP. See Blairton iron mine.		
Otter creek , DEREHAM TP., OXFORD CO.....		
Artesian and oil wells near.....	62	i
Rabbit island , DOG LAKE. See Rabbit island.		
rapid , MISSINAIBI RIVER, ALG.....		
Coal near.....	124	iv
	162 A	xiii
analysis.....	175 A	xiii
river , OPASATIKA RIVER, MISSINAIBI RIVER, ALG.....		
Iron pyrites on.....	243	v
	207	ix
	149, 181 A	xvi
notes by Driver. 255, 256		v
Ruby gold mine , WABIGOON LAKE, R. R. D.....		
Notes on, 1897.....	124	vii

	Page.	Vol.
Big Salmon lake , CASHEL TP., HASTINGS CO.....	163 A	xvi
Sandy lake , R. R. D. See Sandy lake.		
Six gold mlne , EYE LAKE, R. R. D.....		
Notes on, 1898.....	91, 92	viii
1899.....	81	ix
Six Silver Cobalt mines.		
Capital and date of charter.....	29 A	xvi
Stony portage , MICHIPICOTEN RIVER, ALG.....		
Length of.....	5 Bull.	iii
	185	vii
Morainic deposits at.....	192 A	xv
Notes on.....	188	vii
Turtle lake , R. R. D.....		
Waterpower near.....	127	vii
Vermilion lake , R. R. D. See Vermilion lakes.		
Bighead river , GREY CO.....		
Limestone on.....	48, 49 B	xiii
Blgsby, Dr. John J.		
Aventurine feldspar described by.....	195	ix
Beryls found by, Rainy lake....	237	vii
Historical notes by, re North-West Co.....	198	v
Nomenclature of Yellow-girl bay explained by.....	181	v
Notes by, on Kenora.....	170	v
Rainy river.....	208	v
Petalite reported by, Toronto....	206	ix
Staurolite reported by, N. of L. Superior.....	210	ix
Surveys by, Mattawa river, ref. to.....	81 B	xiii
Bigstone bay , LAKE OF THE WOODS, R. R. D.....		
Contact veins near.....	117	R C
Gold mining on.....	117	R C
1892.....	233	ii
1896.....	97, 98	vi
1897.....	111	vii
See also Black Jack mine.		
Dominion Gold Mg. and Red. Co.		
Gold Hill mine.		
Golden Gate mine.		
Map of, showing gold locations.		
Bilbao , SPAIN.....		
Iron ores of.....	121, 122	ii
royalties. 19, 20, 26, 28, 30		i
Bilberries (SASKATCONS).		
Lake Superior, north shore.....	147	viii
Billings, Elkanah		
Estimate by, of iron ore in Hull, Que., and on Rideau canal. 35, 36		ii
Fossils determined by, James Bay dist.....	44	R C
	31 B	xiii
F.....	102	viii
Clapp & Co.	122	xi
Brlidge , NEAR OTTAWA.....		
Brick-yard at, notes.....	60 B	xv
Trenton formation at.....	48 B	xiii
pyrites mine , NEAR BROCKVILLE, LEEDS CO.....		
Early mining in.....	149 A	xvi

	Page.	Vol.		Page.	Vol.
Bilson, Charles			Birch, black		
Marble quarry of, Renfrew	102	B xiii	McConkey tp.....	171	ix
Bi-Metallic Mining and Develop-			Mamainse pen.....	72	iii
ment Co.			Shebandowan Lake dist	205	v
Capital and date of charter.....	7	vii	canoe See Birch, paper		
Wire rope tramway of	352	R C	dwarf		
Bimbowrie, S. AUSTRALIA.			Abitibi Lake dist.....	241	A xiv
Cobalt ore at.....	70	B xiv	Mattagami valley.....	191	A xiv
Binbrook, BINBROOK TP., WENT-			paper		
WORTH CO.			Abitibi dist.....	125, 126	A xiii
Gas piped to	106	A xiv		242	A xiv
Bindley Hardware Co.	119	ii	white		
Bincomodai lake. See Partridge-crop			Abitibi dist....	214-218, 223, 224,	
lake.				228, 231, 249-251	A* xiv
Blogskuaga lake. See Shining-tree				125	A xv
lake.			Blanche River region	215	xi
Biotite.				179, 180	xii
Analysis of.....	83	A xiv	Fourth meridian line.....	181	vii
Composition and colour of..	205, 226	vi	Kenogami valley.....	112	iv
Occurrences of	195	ix	Mattagami valley..	118, 120, 136, 139	A xv
Blotite-peridotite.				diameter..	127, 137,
Michipicoten falls	214	A xiii		143, 152	A xv
Birch.			Michipicoten div.....	295	A xiv
Abitibi dist.....	108, 109, 124	A xiii		200	A xv
	196-205, 222-235	A xiv	Mississagi River region.....	159, 172	xii
	125, 126	A xv	Moisie river, Que., for iron smelt-		
river and tribs. 178, 186, 193		viii	ing.....	491	R C
injured by insects....	129	A xiii	Moose River basin.....	176	A xiii
Black river and tribs. 184-186, 188		xii	Nipigon Lake dist.....	112	iv
Blanche river and vicinity	174, 177-183	xii		138	A xvi
Fourth meridian and base line,			Savant lake.....	88	xi
R.R.d.....	180, 181	vii	Seine river.....	152, 153	v
Garden River (near).....	197	viii	Shebandowan Lake dist	205	v
Gypsum mt.....	158	A xiii	Timagami Lake dist.....	56	R C
Hudson Bay slope.....	176	vi	yellow		
Jackfish bay, L. Superior.....	189	v	Abitibi dist.....	227, 242	A xiv
Lac des Mille Lacs.....	113	v	Eby tp.....	179	xii
Lac Seul.....	62	v	Michipicoten div.....	296	A xiv
Lake Huron slope.....	170	vi	Aphis (INSECT).		
Lake of the Woods.....	170	v	Abitibi dist.....	129	A xiii
Mattagami lake, west of.....	130	ix	case-bearer (INSECT).		
valley..	105, 106, 122, 123	A xiii	Abitibi dist.....	128	A xiii
	192, 195	A xiv	island, LAC DES MILLE LACS,		
	118-123, 144	A xv	Th. B. D.		
diameter..	141-143, 152	A xv	Indian camp on.....	113	v
Michipicoten div.....	13	Bull iii	lake, FRONTENAC CO.		
	189, 191	vii	Iron ore on	134	R C
	137, 206	viii	Mica mining on. See next ref.		
Goulais Bay reg.....	150	viii	Lake mica mine, LOUGHBORO'		
Tip-top mt.....	142	viii	TP., FRONTENAC CO.		
Moss tp.....	79	v	Accident at.....	48, 49	x
Nighthawk lake	176	viii	Notes on.....	134	x
Nipigon Lake region.....	212	x	portage, ABITIBI RIVER.		
Niven's base line and S. of	141	ix	Notes on, by Parks....	185	viii
Port Arthur and vicinity.....	114	ii	Bird, Henry	58	i
Porcupine lake.....	176	viii	Birds.		
Rainy Lake dist.....	96	iv	Abitibi dist.....	189	xii
river	117	iv		126	A xiii
	207, 208	v		243, 253	A xiv
Shebandowan lake	117	v	Bird lake, NIP	112, 119	A xiii
Spanish river.....	125	ix	Birds creek, HERSCHEL TP., HAST-		
Speight's meridian line, E. of L.			INGS CO.		
Superior.....	201, 202	viii	Feldspar mining near.....	288	viii
Sweden, for charcoal.....	396	R C	Birdsboro, PA.	118	ii
Timagami Lake dist.....	57, 58	R C	Birdseye formation.		
Wabigoon lake (near)	171	vii	Notes on, by Bell	41	R C
			Thickness of, in oil fields.....	96	A xiv
			Birge, Cyrus A.	46	v

	Page	Vol.
Birkinbine, John		
Extract from rep. by, on iron ore in United States.....	12	i
Notes by, on :—		
Iron ores in Canada.....	343-345	R C
Lanark co.....	323-334	R C
Paper by, on locations for pig-iron production.....	122-128	ii
Radnor Forges furnace designed by.....	25	ii
Reference to work by, on magnetic separation of iron ores.....	338-340	xii
Views of, re iron ores from Lavant tp.....	141	R C
mechanical treatment of iron ores	86, 87	ii
Birmingham, JEFFERSON CO., ALA.		
Henderson steel converter used at.....	488-490	R C
Iron mining at, advantages of... ores of district of, exhaustion possible.....	398	R C
	8 A	xiii
Birmingham, CONN.		
Rise of price of land in.....	111	ii
Water power at.....	485	R C
Birmingham, WARWICKSHIRE, ENG.		
Nickel refinery at.....	175	C xiv
Science school at.....	512	R C
Iron and Steel Co.	118	ii
Biron, S.	102	vii
Bisbee, COCHISE CO., ARIZONA.		
Azurite from.....	212	vi
Biscay prov., SPAIN.		
Mining lands in, ownership of...	25	i
Bishop, John	47, 50	x
Thomas		
Jasper found by, Batchawana river.....	190	x
Licence to.....	102	vii
Indian reserve, R. R. D.	167	v
of Moosonee. See Newnham, Very Rev. J. A.		
"Bishops-court," MOOSE FACTORY.		
Photo of.....	200, 201	viii
Biskotasing, ALG.		
Jasper north of.....	187	x
Rocks on route from, to Flying Post.....	106	xii
Bismarck, BURLEIGH CO., N. DAK.		
Experiments at, on lignite.....	28	A xiii
Bismite (BISMUTH OCHRE).		
Hardness of.....	201	vi
Lyndoch tp.....	195	ix
Notes on, by Goodwin.....	209	vi
Specific gravity of.....	201	vi
Bismuth.		
Barrie tp.....	77	A xiv
Cobalt dist.....	xi	A xiii
analysis.....	12, 13	B xiv
Bucke tp.....	22	B xiv
Foster apatite mine.....	27	B xiv
Hardness of.....	45	A xv
Hastings co.....	201	vi
Tudor tp.....	193	ii
Joachimsthal, Bohemia.....	195	ix
Ores of, notes by Goodwin ..	61	B xiv
	209, 210	vi

	Page.	Vol.
Bismuth.—Con.		
Pays Plat, L. Superior	190	ii
Port Arthur dist.....	58	B xiv
Three A mine (near)	57	B xiv
Price of.....	234	vii
Schneeberg, Saxony.. 76, 77, 89,	90	B xiv
Specific gravity of.....	201	vi
Uses of.....	234	vii
glance. See Bismuthinite.		
silicate. See Eulytite.		
Bismuthinite (Bismuth glance).		
Annaberg, Saxony	61	B xiv
Frontenac co.....	203	xi
Barrie tp.....	234	vii
Hardness of.....	195	ix
Joachimsthal, Bohemia.....	77	A xiv
Lyndoch tp.....	202	vi
Mikado gold mine.....	202	vi
Notes on, by Goodwin.....	234	vii
Specific gravity of.....	195	ix
Tudor tp.....	203	xi
Bissell & Co.	119	ii
Bittern.		
Abitibi dist.....	189	xii
least		
Abitibi dist.....	253	A xiv
lake, MACGREGOR TP., TH. B. D.		
Iron bearing rocks near.....	259, 260	A xiv
lakes, NIVEN'S BASE LINE, ALG.	138	ix
Bitter-spar. See Pearlspar.		
Bitumen. See Asphaltum.		
Bituminous coal. See Coal:		
limestone. See Limestone, bituminous		
shale.		
Collingwood, analysis	109	B xiii
Kettle pt., analysis.....	156	xii
Port Dover	119	B xiii
slate. See Hamilton formation.		
Biwabik iron mine, MESABI IRON RANGE, U.S.		
Notes on, by Coleman.....	153	ix
BJ 111-114 gold locs. See Jack Lake mine.		
BJ 130 iron loc., NEAR PEWABIC LAKE, R. R. D.	130	xi
Black, D. W.		
Gold mining by, Minnitaki dist.	64	ix
J. F.		
Mining by, Michipicoten div.	102	vii
Mispickel reported by, Davis tp..	102	viii
Prof. James G.		
Chemistry professor, Otago, N.Z.	513, 515, 520, 521	R C
Report by, on Otago School of Mines.....	516-519	R C
L.	102	viii
Thomas	55	viii
William		
Iron prospecting by, Mississagi river.....	162	xii

	Page.	Vol.
Black and Burgess.		
Granite quarrying by, Willets-holm.....	297	xi
Bass lake, E. OF L. OF THE WOODS.	185	v
bay, LAKE SUPERIOR.		
Copper on, chalcopyrite.....	196	ix
mining	86	ix
	109	x
	275	xi
	78 A	xiii
	29 A	xiv
Galena on.....	175	i
	10, 36, 37,	R C
	198	ix
Gold on.....	39	iv
discovery.....	114	R C
Iron ore on, titanite.....	189	v
Jasper quarrying on.....	100	i
Rocks on and near.....	129	vi
granite for quarrying.....	62	R C
quality	205	R C
Keweenaw.....	39	iv
limestone.....	112 B	xiii
dolomite, quarrying	100	i
Nipigon formation.....	36, 37	R C
sandstone.....	189	v
trap	15	v
Bay (OR WILLIAMS) iron mine, BAGOT TP., RENFREW CO.		
Notes on, by Folger and Grady	135, 136	R C
Bay Mine and Quarry Co.		
Notes on work by, 1890.....	100	i
Quarries of, notes on.....	112 B	xiii
Bay Mining Co.		
Capital and date of charter	9	xii
Work by, 1901.....	275	xi
1903.....	78 A	xiii
1904.....	29 A	xiv
Cat Mining Co.		
Crown Point mine bought by . .	61 A	xiii
copper. See Melanconite.		
creek, KENOGAMI LAKE, ELY TP., NIP.	248 A	xiv
Diamond Steel Works.		
Labour employed by, statistics .	370	R C
Donald graphite mine, WHITE-FISH LAKE, BROUGHAM TP., RENFREW CO.		
Discovery of.....	34	vi
Flooded, 1902.....	12, 92 A	xiii
Leased to McConnell.....	22 A	xiv
Notes on, 1895	30, 37	v
1900.....	24	x
1901.....	27, 292, 293	xi
1902.....	26, 132-134	xii
1905.....	106 A	xv
Output of, 1897.....	23 A	xv
1898.....	23	vii
1905.....	18	viii
Photo of plant	289, 290	xi
	176, 177 A	xiii
Prospects, good	14	ix
Summer mining class at.....	53, 54 A	xiii
Tramway from, to railway, sug-gested	55	xii
Unwatered and worked.....	86, 87 A	xiv
Waterpower for.....	14 A	xv

	Page.	Vol.
Black Eagle Gold Mining Co.		
See also Regina gold mine.		
Capital and date of charter.....	11	xi
Extravagant mining by.....	96	xii
Regina mine worked by.....	16, 154	xi
	57 A	xv
Summer mining class at	59	xii
flies. See Flies, black		
Fox gold mine, NEAR RA-LEIGH, R. R. D.	123	vii
Fox silver mine, PORT AR-THUR DIST., TH. B. D.	96	xii
Hawk Gold Mining Co.		
Capital and date of charter.....	9	ix
Hills, S. DAKOTA.		
Columbite in, with tin, beryl and feldspar.....	236, 237	vii
Gold in, mode of occurrence	71	iv
Plutonic plugs of.....	157	vii
"Black Jack." See Zinc blende.		
Jack gold mine, BIGSTONE BAY, L. OF THE WOODS.		
Acquired by Britannia Con'd G. M. Co.....	43	ix
Depth of, 1899.....	35	ix
Locations of.....	174, 175	v
Map of	173	v
Notes on, 1895	177	v
1896.....	50, 98, 251	vi
1897 (idle)	37, 112	vii
by Coleman.....	68	iv
Jack Mining Co.		
Bull-dog mine, L. of the Woods, worked by.....	25, 26	iii
Jack Zinc Syn.		
Capital and date of charter.....	9	x
Lake, MEGANTIC CO., QUE.		
Asbestos from, quality.....	97	iii
lake, BEDFORD TP., FRONTENAC CO.		
Iron ore on.....	134	R C
	34, 37	ii
-lead. See Graphite.		
oxide of manganese. See Py-rrolusite.		
River, JEFFERSON CO., N. Y.		
Black River formation named after	41	R C
Blast furnace at.....	393	R C
river, ABITIBI RIVER.		
Description of, by Bolton....	185, 187	xii
Kay.....	109, 114 A	xiii
Falls on, photo.....	128, 129 A	xiii
Glacial striae on.....	115 A	xiii
Indian wigwam on, photo. .	128, 129 A	xiii
Mouth of, photo.....	215 A	xiv
Notes on, by Parks.....	180	viii
Rocks on.....	192	viii
dolerite.....	117 A	xiii
porphyritic.....	120 A	xiii
Route from, to Fort Matachewan	110 A	xiii
Wataybeeg lake..	113 A	xiii
Soil from, character	130, 131 A	xiii
Trees along.....	115, 124-126 A	xiii
	184-188	xii
Waterpower on.....	183	xii
river, L. OF THE WOODS.		
Huronian schists on.....	103	vi
river, RAINY RIVER, MINN.	166	v

	Page.	Vol.
Black river, L. SUPERIOR.		
Building stone on.....	61	R C
Chalcopyrite on.....	196	ix
Molybdenite on.....	61	R C
Selenium on.....	209	ix
river, SEVERN RIVER.		
Limestone on.....	89, 90	B xiii
River formation.		
Black River, N.Y.....	61	R C
Carleton co.....	37	B xiii
Distribution of.....	24, 27	B xiii
and character, notes		
by Bell.....	111	R C
Dundas co.....	40	B xiii
Frontenac co.....	44	B xiii
Glengarry co.....	46	B xiii
Hastings c.....	186	xi
Marmora tp.....	60	B xiii
Lithographic stone in, notes on..	194	xi
Peel co.....	6	B xiii
Peterborough co.....	95	B xiii
Methuen tp.....	97	B xiii
Position of, in Silurian.....	210	viii
Prescott co.....	2	R C
Renfrew co.....	22	B xiii
Russell co.....	98	B xiii
Simcoe co., Couchiching lake....	104	B xiii
Midland.....	107, 108	B xiii
Stormont c.....	90	B xiii
Victoria co.....	110	B xiii
110	110	B xiii
113	113	B xiii
Black Rock, NEAR BUFFALO, U.S.		
Corniferous formation at, thick-		
ness.....	156	i
Mining Co.		
Capital and date of charter.....	5	xii
Sturgeon gold mine, BLACK		
STURGEON LAKE, R. R. D.		
Accident at.....	28-30	ix
Depth of, 1899.....	35	ix
Huronian-Laurentian contact in..	110	vii
Notes on, 1898.....	57, 58	vii
1899.....	37, 38	ix
lake, L. OF THE		
WOODS DIST.		
Contact Huronian-Laurentian		
on.....	110	vii
Gold mining near.....	6	Bull. i
See also Black Sturgeon g.m.		
Iron ore near.....	29	iii
lake, S. W. OF L.		
NIPIGON.		
Iron ore near, analysis.....	312	xii
hematite.....	311	xii
notes by A. Wilson	311	xii
Mining Co.		
Capital and date of charter.....	7	vii
river, NIPIGON		
LAKE, TH. B. D.		
Beaches on.....	137	A xvi
Iron ore on.....	115-118	A xvi
boring for.....	311	xii
hematite.....	22	R C
jasper with.....	200, 214	x
Marl on.....	37	R C
Photos of.....	116, 118	A xvi

	Page.	Vol.
Black Sturgeon river.—Con.		
Rocks on and near:—		
arkose.....	145	A xvi
Iron f rination.....	143	A xvi
Keweenaw and trap....	37	R C
147	147	A xvi
Roses along.....	139	A xvi
Sand plains on.....	135, 148	A xvi
Sturgeon in.....	139	A xvi
Black Trout lake, MAGPIE RIVER,		
ALG.		
Rocks on and near.....	161, 166	xi
Doré conglomerate....	344, 345	A xiv
petrography. 340,	341	A xiv
Huronian.....	348	A xiv
Blackall, John		
Mica mining by, Burgess tp.....	132	x
Blackash creek, VERMILION RIVER,		
NIP.		
Huronian on.....	169	vi
Blackband ironstone.		
Scotland.....	22	i
Blackbird, rusty		
Abitibi dist.....	126	A xiii
Blackburn, Joe		
R.....	104	A xiii
Russell	125	v
Mica factory of, Ottawa.....	106	A xv
91	91	A xvi
lake, NIP.		
Description of.....	112	A xiii
Rocks on, dolerites.....	116	A xiii
strike.....	121	A xiii
Blacker, William		
Brick-yard of, Brantford, notes..	58	B xv
Blackford Oil and Gas Co.		
Exhibits of, at Buffalo.....	25	A xv
Blackheath, BINBROOK TP., WENT-		
WORTH CO.		
Gas piped to.....	106	A xiv
Blackie, F.		
Gold mining by, Eagle lake.....	96	x
Blackinton, A. B.		
Gold mining by, Michipicoten		
div.....	102	vii
102	102	viii
115	115	ix
139, 140	139, 140	x
73	73	xi
65	65	xii
C. B.	65	xii
Blacksmith rapid, ABITIBI RIVER.		
Clay from, analysis.....	160	A xiii
Lignite on.....	188, 189	vii
photo.....	176, 177	A xiii
report by J. M. Bell. 169-172	169-172	A xiii
section.....	173	A xiii
sketch map showing....	171	A xiii
Rocks on, of glacial age.....	143	A xiii
Blackstone, W. A.	91	xii
Blackwater river, NIPIGON LAKE,		
TH. B. D.		
Jasper on.....	311	xii
Rocks near mouth of.....	214	x
Blackwood, William	80	viii
Blair, Dr.	46	xii
R. See Blair mica mine.		
W. G.	53	A xvi

	Page.	Vol.		Page.	Vol.	
Blair, W. J.			Blast furnace.			
Part owner, University mine			See also Smelters, Deseronto,			
Cobalt.....	85 A	xv	Hamilton, Marmora, Midland,			
Refs. to surveys by, Cobalt dist.	7 A	xvi	Port Arthur, etc.			
Blair co., PA.			Canada, first record of....	255	R C	
Limestone from, analysis.....	6 B	xiii	See also Radnor Forges.			
Blair mica mine, BATHURST TP.,			Charcoal iron for.....	479-484	R C	
LANARK CO.			Collingwood, projected.....	17	ix	
Notes on, 1901.....	290	xi		25	x	
Blairton, BELMONT TP., PETER-			Comparison with reverberatory			
BOROUGH CO.			furnace.....	375	R C	
Country north of, character....	232 A	xiii	England, number of, 1882.....	398	R C	
Iron mining at, 1820.....	321	R C	Husgafvel, notes on the.....	486-488	R C	
See also Blairton iron mine.			Kingston, projected.....	17	ix	
Iron mine, CROW LAKE, BEL-			Ores for, preparation of.....	475-478	R C	
MONT TP., PETERBOROUGH CO.			Peat as fuel for.....	206-209	i	
Anticlinal and synclinal fold in..	51	ii	Bleaching powder.			
Early operations at.....	16, 21	ii	See also Alkali works.			
Notes on, by Ledyard.....	130	R C	Chloride of lime.			
Macfarlane.....	40	ii	Manufacture of, at Sault Ste.			
Merritt.....	127, 130	R C	Marie.....	68	xi	
Murray.....	37, 38	ii	Sulphuric acid for making....	256	v	
Vennor.....	43	ii	Bleichert wire rope system...	351, 352	R C	
Ore of, analysis.....	54, 55	ii	Blende. See Zinc blende.			
character.....	141	xi	lake, MACGREGOR TP., TH. B. D.			
Blake, Prof. L. J.			Zinc-blende and galena on.....	170 A	xv	
Ore dressing process of, des-				209	ix	
cription.....	330	xii		30	R C	
George W.			Blenheim, HARWICH TP., KENT CO.			
W. P.			Artesian well south of.....	59	i	
Notes by, on use of nickel.....	382	R C	Brick-yard at.....	72 B	xv	
=Morscher system. See			Country around, notes on.....	102 A	xvi	
Blake, Prof. L. J.			Gas in, boring for.....	126, 127	i	
tp., TH. B. D.			Blenheim and Harwich Oil Co.			
Diabase in, petrography.....	179	ix	Capital and date of charter.....	37 A	xiii	
Copper locations in.....	85, 146, 147	ix	Blessington apatite mines, EAGLE			
Blakely, E. A.			AND ST. GEORGE LAKES, FRON-			
Blaksley—?			TENAC CO.			
	58 A	xv	Evidence re, before R.C....	172, 173	R C	
Blanch Down, CORNWALL, ENG.			Blewett, William			
Effect of arsenical fumes around.	61	iii	Manager, Cheney copper mine..	149	viii	
Blanchard, J.			Stobie nickel mine....	230	i	
Brickyard of, Penetanguishene,				245	ii	
notes on.....	100 B	xv	Blezard lake. See Whitson lake.			
J. A.			nickel mine, BLEZARD TP., NIP.			
Blanche river, L. TIMISKAMING.			Accident at, 1892 (special report)			
Copper on.....	24	R C		255, 256	ii	
	193	viii		1893.....	167, 176	iii
Course of.....	35, 36 B	xiv	Depth of.....	20 C	xiv	
Description of, by Miller....	214-216	xi	Discovery of.....	134 C	xiv	
south branch.....	225-226	xi	Notes on, 1891.....	231	i	
Explorations on and near, re-				1892.....	247	ii
port by Bolton.....	173-181	xii		1893.....	185	iii
Fish in.....	221	xi		1894 (idle).....	247	iv
Galena near.....	25 B	xiv		1895 (idle).....	273	v
Gold reported on.....	193	viii		1902.....	254-256, 286	xii
Rocks on.....	230	xi	Ore deposits of, character.....	278	xii	
Niagara formation.....	32 B	xiv	proportion of			
petrographical notes.....	228	xi	nickel and			
Waterpower on.....	188	xii	copper in.....	90	i	
	14 A	xv		280	xii	
River Mg. Co.				152 C	xiv	
Exhibits of, at Buffalo.....	25 A	xv	Plan of and vicinity.....	255	xii	
Operating in Hudson tp.....	54 A	xvi	Production.....	156 C	xiv	
Blanford, Dr. W. Thomas			Railway to.....	136 C	xiv	
Blanshard tp., PERTH CO.			Rocks in and near.....	60 C	xiv	
Limestone in.....	96 B	xiii	arkose.....	92 C	xiv	
boring in.....	51-53	xii	granite.....	81 C	xiv	
See also St. Marys.						

	Page.	Vol.
Bleazard lake. — <i>Con.</i>		
Rocks in, greenstone.....	76	i
micro-norite	81 c	xiv
nickel bearing, analysis	214 A	xiii
norite	110, 112 c	xiv
analysis.....	116, 117 c	xiv
notes by Coleman....	55-57 c	xiv
quartz-hornblende....	292	xii
Stockwork in.....	19 c	xiv
Worked by Dominion Mg. Co...	142 c	xiv
tp., SUDBURY DIST., NIP.		
Copper in	24	R C
chalcopryite	196	ix
mining, 1899.....	98	ix
Clay band in	105 c	xiv
Iron in, boring for	214 A	xiii
Nickel in :—		
See also Bleazard mine.		
Beatrice mine.		
Cameron mine.		
Little Stobie mine.		
Mount Nickel mine.		
Stobie mine.		
boring for	214 A	xiii
notes by Bell	433	R C
Rocks in :		
crystalline schists	80	i
granite	83 c	xiv
nickel eruptive	62, 111 c	xiv
norite	242	xii
Whartonite in	211	ix
Valley, BLEZARD TP., NIP.		
Agricultural land near	106 c	xiv
Blight, Ulrich	33	vii
Blind River, COBDEN TP., ALG.		
Copper claims north of	98	xii
Blind (OR PENEWABECONG) river, L. HURON.		
Huronian from, to Sault Ste.		
Marie	157	viii
Lumbering on	119	iv
Blindfold lake, L. OF THE WOODS DIST.		
Gold mining on.....	111	vii
Bliss mica mine, S. BURGESS TP., LEEDS CO.		
Notes on, 1901.....	290	xi
Block, Mrs. Fred	222	vii
	246	viii
Blomidon cape, KINGS CO., N.S.		
Amethyst and chalcedony at.	223, 224	vi
Blonquist, Gustavus	238	v
Blood=stone (HELIOTROPE).		
Definition of.....	529	R C
Bloom tp., LOGAN CO., OHIO.		
Natural gas in, depth and pressure	155	i
Bloomfield, C. J.	104	xi
Bloomington, McLEAN CO., ILL.		
Paving clay from, analysis.....	120	iii
Streets of, paved with brick	106, 112, 113	iii
Blossom lake, KEKEK BROOK, MATAWIN RIVER, R.R.D.		
Granite on.....	129	v
lake, SHEBANDOWAN LAKE REG., TH. B. D.	130	v

“Blotched diorite.”

	Page.	Vol.
Parry Sound dist.....	93, 94 B	xiii
<i>Blotrophylum decortiatum.</i>		
Cayuga, N. tp.....	146	xii
Port Colborne (near).....	35	xi
Villanova and Rockford.....	143	xii
Blouquest, William	25, 26	ix
Blue, Archibald		
Appointed in charge of census of		
Canada.....	5	x
on Roy. Com.....	10	R C
Blueite called after ...	169, 192	ii
Explorations by, L. of Woods,		
ref. to.....	68	iv
Michipicoten		
div.....	202	vii
ref. to.....	172	viii
N. of L. Superior, ref to	126	viii
Timagami dist.	172	ix
Instructions by, to Coleman re		
Michipicoten iron range.....	255	viii
Letter by, to Bow re Golden Star		
g. m.....	263	viii
Magnetic concentration of iron		
ore advocated by.....	332	xii
Notes by, on discovery of anthracite, Balfour tp.....	1, 3 Bull.	ii
Papers by :		
1890. Report of the Commissioners to Lieutenant-Governor.....	xi-xxiv	R C
Mining Laws and Regulations	255-318	R C
The smelting of ores of economic minerals in Ont.....	319-406	R C
Measures for aiding and encouraging mineral development.....	407-429	R C
Technical instruction	491-524	R C
1891. Minerals of Ontario.	165-179	i
Natural gas	115-164	i
Structural materials..	95-114	i
1892. Facts and opinions of the iron industry.....	96-122	ii
Iron-making in Ontario	12-30	ii
Iron ores of Ontario ..	30-82	ii
Mining Laws of Ont.	221-229	ii
Nickel and copper..	128-148	ii
Treating iron ores and metallic iron.....	83-96	ii
1893. Actinolite, asbestos and talc.....	89-102	iii
Copper at Point Mainse	62-68	iii
Diamond drills.....	164-166	iii
Gold fields of Ontario.	12-61	iii
Iron trade in the United States	144, 145	iii
Kingston School of Mining	178-180	iii
Lithographic stone.	136, 137	iii
Nickel-steel for armour.	147-163	iii
1894. Calcium carbide and acetylene gas.....	139-141	iv
Diamond drill Exploration	167-176	iv

	Page.	Vol.		Page.	Vol.
Blue, Archibald.—Con.			Blue lake, MICHIPICOTEN DIV., ALG.		
1894. Nickel and its uses..	176-198	iv	Nomenclature of	197	vii
Summer Mining Schools.	216-222	iv	lake, VERMILION RIVER, NIP.		
1895. Mining Schools.....	211-220	v	Gold near, alluvial	155	x
On a tour of inspection			Rocks on and near	156	x
in Western Ontario. 107-190		v	Huronian, photo.....	155	x
ref. to.....	4	v	Lake Cement Co.		
The New Ontario....	191-211	v	Brick-clay for, from Harrisburg.	115 B	xv
1896. Mining Schools.....	193-198	vi	Lake nickel mine, MACLENNAN		
Silver islet.....	125-157	vi	TP., NIP.		
1897. Mining Schools.....	259-265	vii	Notes on, 1901	284-286	xi
1898. Corundum in Ont....	241-249	viii	Rocks on.....	273, 274	xii
1899. Mining Laws of Ont.	225-229	ix	malachite. See Azurite.		
On Diamonds in Ont.	119-124	ix	mtns., PETERBOROUGH CO.		
Reports by, as Director :			Corundum in.....	210	viii
1891.....	1-61	i		193	xi
1892.....	1-12	ii	Muscovite in.....	91 A	xiii
1893.....	1-11	iii	Notes on, by Miller	214	viii
1894.....	1-34	iv	Rocks of	208-212, 222	viii
1895.....	1-46	v	granite	194	xi
1896.....	1-70	vi	Niagara formation.....	44	R C
1897.....	1-34	vii	nepheline-syenite, anal-		
1898.....	1-28	viii	ysis	207	viii
1899.....	1-34	ix	Terraces on.....	151, 152	viii
Work by, 1895....	4, 74, 75	v	altitude	177	ix
Wilson	107	v	Mountain escarpment, PETER-		
102, 187, 197		vii	BOROUGH CO.		
carbonate of copper. See Az-			Niagara formation at	49 B	xiii
urite.			Notes on, by Coleman.....	122	viii
colour. See Cobalt glass.			Bluebell gold claim, N. OF LARDER,		
flags.			NIP.		
Abitibi dist, Nip.....	253 A	xiv	Rocks on and near, photo	208 A	xvi
lake, BEDFORD TP., FRONTENAC			Blueberries.		
co			Abitibi Lake dist.....	241 A	xiv
Apatite mining on.....	245	i	Black and Blanche rivers.....	188	xii
lake, DUMFRIES TP., BRANT CO.			Lac Seul.....	85	v
See also Ontario Portland Cement			Lake Superior, north shore....	147	viii
Co.			late growth....	85	v
Cement works on	17 A	xiii	Mattagami valley	150 A	xiv
	18 B	xiii	Michipicoten dist.....	188	vii
	18 A	xiv		200 A	xv
Marl in	33, 149	xii	Tip-top mt.....	142	viii
	34 B	xiii	White River, date.....	139	viii
	154 A	xiv	Montreal river	200	viii
lake, LOUGHBOROUGH TP., FRON-			Peat bogs of Germany.....	213	ii
TENAC CO.			Rainy Lake region	96	iv
Mica prospecting near.....	92 A	xiii	sold by Indians.....	97	iv
Rocks in vicinity of.....	288	xi	Blueite.		
lake, MACLENNAN AND CAPREOL			See also Whartonite.		
TPS., NIP.			Description and analyses, by Em-		
Glaciation near.....	102 C	xiv	mens	168-170	ii
Iron pyrites on.....	158 C	xiv	Exhibited at World's Fair.....	192	ii
Gravel plains south of.....	75 C	xiv	Sudbury ores	281	xii
Minor ref. to.....	289	xii		160 C	xiv
Nickel on.....	15, 73, 74 C	xiv	analysis	282	xii
mining. See Blue Lake			Bluevale, TURNBERRY TP., HURON CO.		
nickel mine.			Brick-yard at.....	57 B	xv
Ores in region of, character....	274	xii	Bluewater (NEW POST) river, ABITIBI		
Pyrite crystals in ore of.....	281	xii	RIVER.		
Pyrrhotite from.....	237	xii	Fall on, description	145 A	xiii
Rocks on and near.....	203 A	xiii	Photo.....	144, 145 A	xiii
	10, 115 C	xiv	Quartzites on	140 A	xiii
diabase.....	298	xii	Swamp elm on	176 A	xiii
	85 C	xiv	Bluff lake, MANITOU LAKE DIST.,		
nickel eruptive... ..	284	xi	R. R. D.....	49	iv
	273	xii			
norite	112 C	xiv			
structure	81 C	xiv			

	Page.	Vol.
Blum, Anthony		
Gold mining by, Manitou lake..	123	vii
Owner, Laurentian g. m.....	51, 52 A	xv
President, Laurentian Mg. Co...	52 A	xiv
Volcanic Reef Mg. Co.	52 A	xiv
Secretary, Twentieth Century Mg.		
Co.....	249	xi
Frank	256, 257	ii
Blyth, MORRIS TP., HURON CO.		
Brick works at, notes on	70 B	xv
Onondaga formation at	45	R C
Salt at	187, 188	R C
depth of	185	R C
Blytheswood, MERSEA TP., ESSEX CO.		
Natural gas at	117 A	xiv
Blythfield tp., RENFREW CO.		
Ochre in	205	ix
Steatite and talc in	210	ix
Tourmaline and tremolite in ...	211	ix
Boal mica mine, STORRINGTON TP.,		
FRONTENAC CO.	135	x
Boars=back. See Esker.		
Bobcaygewan rapid, STURGEON		
LAKE, VICTORIA CO.		
Trenton formation at	113 B	xiii
Bobs lake, FRONTENAC AND LANARK		
COS.		
Apatite mining on	239	i
evidence before R.C.170,	174-177	R C
Corundum-bearing rocks near...	227	viii
Field geology on	220	v
Gneisses near, rust-coloured....	50	ii
Iron ore on	137	R C
Limestone belt crossing	46	ii
Mica mining on	12, 92 A	xiii
	86 A	xiv
	103 A	xv
	89 A	xvi
Pyroxenite from	437	R C
Bocage (Indian)	58	R C
Bochum, RHENISH-WESTPHALIA, GER-		
MANY.		
Mining school at	495	R C
Bodilly, J. W.	71	xv
Boerth, Henry J. See Boerth Min-		
ing Co.		
gold mine, CLARENDON TP.,		
FRONTENAC CO.		
Notes on, 1899	93, 94	ix
1901	236	xi
by Miller	203	xi
Re-opened, 1903	93 A	xiii
Mining Co.		
Afterwards Clarendon Mg. Co...	236	xi
Capital and date of charter	9	viii
Bog iron ore. See Limonite.		
Bog manganese (WAD).		
Hardness of	201	vi
Madoc tp. and Thunder bay	211	ix
Specific gravity of	201	vi
Bogardus, W. B.	152 A	xiv
Bohemia.		
Cambrian in	31	R C
Cobalt ores of	61-63 B	xiv
Colour works in	87, 88 B	xiv
Melaphyre from	171	viii
Pitchblende in, export prohibi-		
ted	12 B	xiv

	Page.	Vol.
Bohemia mt., SUFFOLK CO., N. Y.		
Copper in gabbro of	87	iii
Boileau Reduction Co.		
Exhibits of, at Buffalo.	25 A	xv
Boiler Inspection and Insurance Co.		
Mica covering tested by	32	v
plate.		
Canadian imports of, 1881-87....	246, 249	R C
Boilers.		
Canadian imports of, 1881-87....	250	R C
Mica for covering, notes by Blue	31, 32	v
scrap	34	vi
Nickel for	144	ii
Bois Brule, R. R. D. See Brulé.		
Boland, J. P.		
Managing Director, Empress gold		
mine	265	vi
Pioneer of Wanapitei dist. ...	138, 139	vii
lake, WANAPITEI LAKE DIST.,		
NIP.		
Gold mining near	267-269	vi
	86, 87	vii
<i>See also Crystal mine.</i>		
Bole, B. P.	115	ix
	140	x
	73	xi
lake, MICHIPICOTEN DIV., ALG.		
Iron prospecting near	319 A	xiv
Minor ref. to	291 A	xiv
Rocks near	313, 317, 318 A	xiv
Bolger, Francis	106	ii
Bolitho, Thomas	34	i
Bolton, F.	69 A	xiii
	51 A	xiv
L. L.		
Manager, Radnor iron mine....	80 A	xvi
Report by, on explorations be-		
tween Otto tp. and Abitibi		
river	173-190	xii
ref. to	268 A	xiv
Work by, 1902	5, 72	xii
William		
Limestone quarrying by, Win-		
chester tp.	40 B	xiii
Pottery making by, Albion tp...	118 B	xv
Bolton, ALBION TP., PEEL CO.		
Brick-yard in, notes on	89 B	xv
Bolton, WORCESTER CO., MASS.		
Petalite at	472	R C
Bolts.		
Canadian imports of, 1881-87. 246, 249		R C
Bonanza Creek Gold Mg. Co.		
Capital and date of charter	24 A	xiv
Exhibits of, at Pan-American		
Exhibition	25 A	xv
gold mine, McLELLAN TP.,		
NIP.		
Notes on, 1894	233	iv
Gold Mg. Co.	214	v
lake, SOUTHEAST ALG.		
Country near, notes by Graton..	160	xii
Nickel Mg. Co.		
Capital and date of charter	7	vii
Mammoth gold mine worked by		
4, 190, 229		v
Work by, Maclellan tp....	234	iv
	4	v

	Page.	Vol.
Bonanza Nickel Mg. Co.—Con.		
Work by, Wanapitei lake.....	138	vii
Reef Extension, Ltd.		
Capital and date of charter.....	28 A	xvi
<i>Bonasa umbellu.</i> See Grouse, ruffed		
Bone ash.		
Lime used in making.....	3 B	xiii
Bonewell, G. F.	102	vii
Bonheur, SEINE RIVER REG., R.R.D.		
Road from, to Harold lake.....	69	v
notes on making of..	64	vii
Belle Gold Mg. Co.		
Capital and date of charter.....	9	viii
Bonna concrete system.		
Descriptions and illustrations of.	177 A	xiv
Bonnechere river, RENFREW CO.		
Chazy formation on	41	R C
Explorations on, by Murray, ref.		
to.....	244	viii
Marl near.....	121 A	xiv
Trenton formation in valley of..	104 B	xiii
Waterpower of.....	252	vii
Bonner, Charles		
Nickel found by, Michipicoten		
island	443	R C
John	171, 172	ii
Bonner location, MICHIPICOTEN IS-		
LAND	60, 61	R C
Bonney, Prof. G. T.		
Refs. to studies by, of Sudbury		
rocks	206	x
Views of, re origin of Kimberly		
diamonds.	122	ix
Wanapitei rocks..	127, 131	iv
Bonter, Edward	137	iii
William	137	iii
Booms. See Mining booms.		
Boone, J.		
Brick-yard of, Thornbury.....	66 B	xv
Boonton, MORRIS CO., N.J.		
Magnetic ore in, treatment of.	102, 103	ii
Booth, William A.	156	vi
and Garrett.		
Analyses by, of iron ore from		
Snowdon tp.....		
Borax.	131	R C
United States, production, 1888..	525	R C
Bordeaux Tramway Co.		
Moss-litter used by	212	ii
Borden, Hon. F. W.	4	vii
Dr. F. W.	60	ix
feldspar mine, PORTLAND TP.,		
FRONTENAC CO.		
Notes on, 1902.....	137	xii
1905.....	102 A	xv
1906.....	88 A	xvi
Bore hole records.		
Value of.....	163	i
Anthraxolite		
Balfour tp	160, 161	vi
Gas and Oil		
Brantford (near)	25, 26 A	xiii
Elgin co., Dunwich tp.....	15	viii
Port Stanley.....	41 B	xiii
Essex co.....	18	vi
Guelph.....	150	xii
Hepworth	123 B	xiii
	45	xi

Bore hole records.—Con.**Gas and Oil**

Interlake peninsula.....	109-114 A	xv
Kent co., Chatham	68 B	xiii
E. Tilbury tp.....	103 A	xvi
Raleigh tp.....	41	xii
Zone tp.....	19	vi
Kokohama, Ind.....	152	R C
Manito lin island	72, 73 A	xv
Middlesex co	80 B	xiii
Petrolea dist.....	153	R C
Portland tp	283	v
Stratford	150	xii
Western Ontario.....	97, 117 A	xiv

Iron

Bedford tp.....	228	v
Matawin iron range	131	v
	131	x
Sabawe lake.....	131	xi

Nickel

Bleazard tp.....	214 A	xiii
------------------	-------	------

Salt

Windsor.....	33	vi
--------------	----	----

Silver

Mamainse pt.....	243	ii
------------------	-----	----

Water

Essex co., Anderdon quarries...	42 B	xiii
Essex	46 B	xiii
London (Ont.) asylum	152	R C
Midland.....	58	i

Boring.

See also Bore hole records.

Advantages of Govt. aid in	425	R C
Australia, Govt. aid to	55	x
notes	233, 234	v
By Govt. diamond drill. See		
Govt. diamond drill.		
Experience of operators	127	i
Notes on, by D. Sinclair....	166, 167	R C

Coal

Balfour tp (anthraxolite)	95, 96 C	xiv
Soweska river, notes by J.M. Bell.	166 A	xiii

Copper

Mamainse pt.....	130	ii
Sand Bay location, L. Superior..	73	iii

Gas and Oil

Athabaska Landing.....	172	v
Cost of	102 A	xvi
Kent co., report by Knight..	92, 104 A	xvi
Ontario peninsula.....	5	v
Paper on, by Blue	117-140	i
Pelee island, L. Erie.....	5	v
Processes, old and new compared	156	R C

Gold

Mammoth gold mine, Maclellan		
tp.....	4	v

Iron

Bedford tp.....	5, 174	iv
	4	v
Bleazard tp.....	214 A	xiii
Burwash lake.....	17 A	xvi
Government subsidies advocated.		
for.....	238	i
Loon lake, Alg....	12, 29, 44 A	xiv
	27 A	xv
Michigan and Minnesota, cost of.	175	iv
	231, 232	v
Nipigon Lake dist.....	120, 127 A	xvi
Steep-rock Lake dist.....	266	xi

	Page.	Vol.		Page.	Vol.
Boring, Iron.—Con.			Borron, Edward B.—Con.		
Tinagami lake	78	A xiv	Prospecting operations of the		
Mica			Montreal Mg. Co.	64-66	iii
South Burgess tp.	88	A xvi	Views of, <i>re</i> :—		
Nickel			Peat area, Hudson Bay slope..	191	i
Sudbury dist.	142	C xiv		209	ii
Bleazard tp.	214	A xiii	Price of peat-charcoal	207	i
Drury and Trill tps.	195	A xiii	Work by, 1895	5	v
Salt			for Montreal Mg. Co.	73	iii
Detroit river.	123	xi	<i>See also</i> Evidence before R.C.		
Silver			Borsowka river, RUSSIA.		
Coleman tp.	31	A xvi	Corundum on	235	viii
Kerr lake.	83	A xv	Bosanquet tp., LAMBTON CO.		
Water			<i>See also</i> Kettle pt.		
<i>See</i> Artesian wells, and Water.			Brick clay and yard in. <i>See</i>		
Bork, W. H.	102	vii	Thedford.		
Borland, William F.	83	viii	Fossils from	422	R C
Bornite (ERUBESCITE).			Salt in. <i>See</i> Port Franks.		
Bannockburn (near)	42	A xv	Section of strata in	68	B xiii
Copper mt., B.C.	162	C xiv	Boston, BOSTON TP., NIP.		
Christie tp.	101	ix	Trail from, to Larder lake.	203	A xvi
Creighton tp.	180	A xvi	Boston, U. S.		
Determination of.	203, 212	vi	Brick pavements in	108	iii
Grant co., Oregon.	71	B xiv	Fire of, behaviour of granite		
Hardness of	202	vi	buildings in	134, 136	iii
Lake Huron.	193	ii	and Worcester Ry.		
McGown copper m. <i>See</i> Mc-			Peat burning experiments on ...	198	i
Gown copper m.			Mines, Ltd.		
Occurrences of.	195	ix	Capital and date of charter.	28	A xvi
Parry Sound (near)	37	iv	tp., NIP.		
Shewn at World's Fair.	192	ii	Iron in	30	B xiv
Specific gravity of	202	vi	report by Miller.	261-267	A xiv
Vermilion mine, Sudbury dist.	161	C xiv	Bostwick, —?	209	v
Borron, Edward B.			Boss.		
Appointment of, as Inspector ...	315	R C	Meaning of term	231	vi
Copper mining by, Mississagi			C. M.		
river.	148	viii	Acknowledgments to	177	x
Evidence by, before R.C. <i>re</i> :—			Manager, Elsie mine.	251, 281	xii
copper, L. Huron and L. Super-			Great Lakes Copper		
rior.	92-100, 402-404	R C	Co.	98	ix
smelting.	403	R C	Krean Hill mine.	64	A xv
ref. to.	378	R C	Bossineau, J.	102	vii
free-trade.	237, 238	R C	Bothwell, ZONE TP., KENT CO.		
gold	114, 115	R C	Oil in.	55, 160, 161	R C
Hudson Bay slope	69, 70	R C		90	A xiv
lead	147	R C	<i>See also</i> Bothwell oil field.		
miner's rights	316	R C	boring for, logs.	109, 110	A xiv
rail freight.	246	R C	production, 1905.	108	A xv
silver, L. Superior.	194, 195	R C	Salt at.	55, 186	R C
technical instruction.	428, 429	R C	oil field, KENT. CO.		
Limonite mentioned by, Oba river.	156	A xiii	Boring in	5, 25	v
Minor refs.	51	R C	Notes on, by Blue	18-24	vi
	81	i	Production, 1897 (disappointing)	18	vii
Notes by, on:—			1898.	15	viii
agricultural prospects, Moose			1900.	17	x
River basin.	115	iv	1905.	24, 92	A xvi
climate of Moose River basin..	106	iv	Batrachium virginianum.		
coal, Missinaibi river.	125	iv	Abitibi Lake dist.	242	A xiv
spruce in The Hinterland.	120	iv	Mattagami valley.	151	A xv
Reference to surveys by:—			Botsford, A. F.		
Abitibi lake.	82	B xiii	Gold prospecting by, R. R. d. ...	178	vii
Moose River basin.	77, 78	ii	Manager, Maw gold mine.	102	x
	105, 126-128	iv	Botta, P. E.	166	i
	160	A xiii	Botterell, A. E.	250	xi
	149, 150, 181	A xvi	Bottle kiln.		
Reports by, on:—			Diagram of	126	A xiv
A section of the height-of-land			Bottle lake, MICHIPICOTEN DIV., ALG.		
region, N.E. of L. Superior.			Minor ref. to.	179	A xv
	240-258	v	Rocks on.	202, 205	A xv

	Page.	Vol.		Page.	Vol.
Bouchard, Theophile	167-175	iii	Bow, J. A.		
Boucher, L.	144	x	Acknowledgments to	137	xi
mine , WANAPITEI DIST., NIP.			Report by, as Inspector of Mines.		
Pyrrhotite from, analysis	145 c	xiv	1897	34-84	vii
Bouin farm , MOUTH OF MONTREAL			1898	49-99, 262-274	viii
RIVER, NIP.			1899	35-88	ix
Terrace on	177	ix	1900	69-90	x
Boulder(s).			Report by, on accidents at :—		
Cobalt, conglomerate, notes by			Olive gold mine	32-34	vii
Miller	212 A	xvi	West End silver mine	24, 25	viii
Cobourg, near, nepheline-syenite	244	viii	25-31		ix
Hastings corundum dist.	224	vii	Resignation of	5	x
Night-hawk lake, photo.	128, 129 A	xiii	Work by, 1898	275, 280	viii
Origin of	16	R C	Park farm , NEAR BRANTFORD,		
Paris, Ont., burnt for lime	149	xii	BRANT CO.		
Rainy River dist.			Gas in, and oil	25, 26 A	xiii
Abram lake	96	v	21 A	xiv	
burnt for lime	76	iv	acquired by Imperial Nat-		
Elbow lake	90	v	ural Gas Co.	108 A	xiv
=clay. See Clay, boulder			boring for, log of well.	107 A	xiv
island , L. OF THE WOODS,			Bowden, J. L.	115	ix
R. R. D.			140	x	
Gold on, discovery	118	R C	Bowell tp. , SUDBURY DIST., ALG.		
mining	232	ii	Geology of	200 A	xiii
lake , SHEBANDOWAN LAKE			Rocks in	274	xii
REG., TH. B. D.			conglomerate	39, 94 C	xiv
Iron ore south of	128	v	petrography	129, 130 C	xiv
Minor ref. to	127	v	nickel-eruptive	211, 276	xii
Notes on	89, 90	vi	199 A	xiii	
Mg. Co.			68-70 C	xiv	
Capital and date of charter	9	ix	off-set deposits	63, 114 C	xiv
Mine of, idle, 1899	51	ix	tuff, analysis	132 C	xiv
1900	73	x	Bowen, N. L.	215 A	xvi
Work by, 1898	61, 276	viii	Bowman mills , WHITEBY.		
Boundary pt. , ABIRIBI LAKE, NIP. .	219 A	xvi	Salt spring at, analysis	204	ix
Bounties.			Bowie, N.	115	ix
Arsenic, suggested	29	xi	Robert	268	vi
Iron			Bowker, Sidney T.		
See also Iron Mining Fund.			Recorder, Sault Ste. Marie Mg.		
1883-1889	328	R C	div	36 A	xvi
1883-1893	28	ii	Report by	41 A	xvi
1900	31-33	x	Bowlby and Benson	100 A	xvi
conditions	74	ii	Bowling Green , WOOD CO., OHIO.		
Connec's views	112	ii	Cincinnati arch near	116	i
Oil	21 A	xv	Bowman, J.	109	x
amount paid, 1904	21 A	xiv	tp. , NIP.		
rate	22 A	xv	Apatite deposits in	436, 437, 440	R C
Bournonite (WHEEL-ORE).			Minor ref. to	109 A	xiii
Bagot and Darling tps.	193	ii	Bowmanville , DARLINGTON TP., DUR-		
195		ix	HAM CO.		
Determination of	208	vi	Brick-yard at, notes on	61 B	xv
Hardness and specific gravity of.	202	vi	Coal at, reported	203	ii
Bousquet, J.	115	ix	Iroquois beach near	230 A	xiii
140		x	Limestone quarry at	41 B	xiii
Boussingault, J. B.	383, 497	R C	Boyce, David	130	xii
Boustead, W. E.			103 A	xv	
Assays by, of rocks from Opasa-			Boyd, David G.		
tika reg	256	v	Map by, Michipicoten div.	with vol.	vii
Report by, on Summer Mining			ref. to	186	vii
classes, 1903	217-221	iv	Report by, Michipicoten div.		
Bovaird, Seyfang & Co.	118	ii	1897	100-107	vii
Bovill, Edward N.	9	vi	1898	100-102	viii
Bovisia, ITALY.			ref. to	254	viii
Arsenic mining in	101	xi	1899	112-118	ix
Bovoy, Henry T.	217	i	1900	137-144	x
			1901	70-75	xi
			1902	62-67	xii
			1903	46-49 A	xiii
			1904	35 A	xiv

	Page.	Vol.		Page.	Vol.
Boyd, David G.—Con.			<i>Brachiopoda.</i>		
Work by, 1900.....	6	x	Anderdon tp.....	125	xi
1902.....	4, 259	xii	Kawanaska river (near).....	186	xii
1903.....	xi A	xiii	Kwataboahagan river.....	185 A	xiii
Boyd, J. C.	102	vii	Mattagami valley, in erratics....	135 A	xv
	102	viii	Thedford.....	154, 155	xii
J. F.	102	viii	Bracken, John		
	115	ix	Abitibi soils determined by.....	130 A	xiii
J. W.	108	x	Bradburn tp., SUDBURY DIST.		
James			Soil and timber in.....	143, 145 A	xv
Notes by, on asbestos.....	96	iii	Braddock Development Co.		
W. S.	102	vii	Capital and date of charter.....	31 A	xvi
	102	viii	Braddock Wire Works.		
Caldwell & Co.	103	ix	Labour employed by, statistics..	370	R C
	86	xi	Bradely, H. M.	71	ix
Smith mine. See Smith, Cap- tain Boyd			Braden, William	118	x
Boyer, B.				269	xi
Helen iron mine discovered by..	45 A	xv	Bradford, F. E.	73	xi
Licence to.....	102	vii	W.	53 A	xiii
	102	viii	Bradley, E. C.	97 A	xvi
	115	ix	P. R.		
	140	x	Manager, Ontario Smelting Works	84 A	xiii
	73	xi		69 A	xiv
	65	xii	resigned.....	63 A	xv
J.	102	viii	& Co.	119	ii
lake, MICHIPICOTEN DIV., ALG.			estate, PETROLEA.		
Altitude and depth of.....	155, 157	ix	Boring on, for oil.....	111 A	xv
Description of.....	169	xi	Bratt, E. F.		
Draining of.....	95	xi	Manager for Clergue Co.....	103	xii
	63	xii	Helen iron mine....	265	xi
	187 A	xv	McKellar iron mine. 112	x	
Glacial deposits near.....	169	xi	Bradwin, E. W.	50 A	xvi
striae.....	178	ix	Brady, H. F.	84	vi
	185	xi	Brady's Bend, ARMSTRONG CO., PA.	148	i
Gold mining on.....	113	ix	Braeside, McNAB TP., RENFREW CO.		
Iron ore on, analysis.....	192, 193	x	Limestone at, analysis, quarries.	104, 105 B	xiii
estimate of quantity	258	viii	Bragg, John	30	viii
Iron ore on, notes on mining....	255	viii	Brain, H. I.	60	ix
<i>See also</i> Helen iron mine.			Braithwaite.		
Iron pyrites on.....	169 A	xvi	Notes by, on origin of peat..	182, 183	i
Notes by Coleman.....	221 A	xiii	Brampton, CHINGUACOUSY TP., PEEL		
Origin of.....	194	x	Co.		
	171	xi	Brick-yard at.....	15 A	xiii
Photo of.....	176, 177	xi	notes on.....	89 A	xv
	188 A	xv	Medina shale at.....	7 B	xv
Pyrrhotite near.....	168	xi	analysis.....	8 B	xv
Rise to, from Sayers lake.....	153	xi	Pressed Brick Co.		
Rocks on and near.....	156	ix	Exhibits at Buffalo.....	25 A	xv
	191	x	Works of, at Brampton.....	89 B	xv
	168	xi	John		
Yellow ochre on.....	189 A	xv	Evidence by, <i>re</i> royalties in the		
analysis.....	169	xi	Colonies.....	43, 44	i
Boyle, David			Bramwell, Sir Fredk.	120	viii
Evidence by, before R.C.....	423	R C	Brandenstein, ?	81 B	xiv
In charge of Ontario exhibits,			Brandon, Wm. H.	228	i
Chicago.....	78	ii	Brandy island, L. ERIE.		
	185, 191	iii	Salt in, boring for.....	123	xi
Bracebridge, MACAULAY TP., MUS-			Brant co.		
KOKA DIST.			Brick-making in, notes by Baker	58, 59 B	xv
Brick works at, notes on.....	82 B	xv	Gas and oil in, notes and logs	106-108 A	xiv
water-wheel for, photo.	83 B	xv	Limestone in, Corniferous.....	25 B	xiii
Clay at, analysis.....	27 B	xv	notes by Miller...	33 B	xiii
Saugeen.....	19, 33, 82,	B xv	lake, MICHIPICOTEN DIV., ALG.		
working of, photo.....	41 B	xv	Iron ore on.....	104	xii
Waterpower for, from Muskoka			hematite.....	20	xii
river.....	14 A	xv	Minor reference to.....	293 A	xiv
Brick Co.			Rocks on.....	305 A	xiv
Brick-yard of, notes on.....	83 B	xv			

	Page.	Vol.		Page.	Vol.
Brant tp., BRUCE CO.			Breidenbach, Theodore		
Brick-clay in. <i>See</i> Walkerton.			Manager, Flint lake g.m.	255	xi
Cement works in, photo.	143	A xiv		59	xii
<i>See also</i> Brantford.			Mikado g.m.	48, 105, 107	vi
Gypsum in.	35,	36 B xiii		51-53, 120	vii
Iron ochre in.	200	ix		44, 64	viii
Limestone in.	35	B xiii	(resigned)	52	ix
Lithographic stone in.	6,	36 B xiii	Sirdar g. m.	56	ix
Marl in.	37	B xiii	(resigned)	78	x
Mineral water in, analysis.	204	ix	Work by, at Tycoon g. m.	58	ix
Brantford, BRANTFORD TP., BRANT CO.			Breitung, Edward N.		
Brick-making in, notes by Baker	58,	59 B xv	<i>See also</i> Breitung Iron Co.		
Cement plant near.	17	A xiii	Manager for same	263	xi
	18	A xiv		71	A xv
(<i>See also</i> Ontario Portland Cement Co.)			Iron Co.		
Erie clay at	13	B xv	Capital and date of charter	26	A xv
Gas at.	22	A xiii	Work by, 1901.	263	xi
	21	A xiv	1902	20	xii
	23,	108 A xv	1905	71	A xv
	25	A xvi	<i>See also</i> Loon Lake iron mine.		
Gravel at.	51	B C	Breitung lake, DEROCHE TP., ALG.		
	142	xii	Iron ore in	139	xi
Limestone at.	33	B xiii	Bremen, GERMANY.		
Oil at and near.	25	A xiii	Peat used in, for sanitation.	216	ii
	90	A xiv	Bremner, James		
log of wells. 106,	107	A xiv	Limestone quarry of, Beachville. 149	xii	
112,	114	A xv		92	B xiii
Brantford tp., BRANT CO.			Bremner, NEAR MONTIZAMBERT,		
Gypsum mining in.	281	v	TH. B. D.		
<i>See also</i> Torrence mine.			Devonian pebbles near, source of. 157	viii	
Brick Co.			Bremner river, WHITE RIVER, L.		
Brick-yard of, photo.	102	B xv	SUPERIOR.		
Power and Light Co.	33	B xiii	Headwaters of, altitude.	138	viii
<i>Brasen a peltata.</i>			Notes on, by Coleman	136, 137	viii
Ottawa (near)	225	x	Brennan, Thomas J.	134	x
Brass.			Brennan iron mine, MADOC TP.,		
Biblical ref. to	381	R C	HASTINGS CO.		
Brassard tp., BERTHIER CO., QUE.			Notes on, 1901.	262, 263	xi
Beryl in.	237	vii	Brent, Charles		
Braunschweig, GERMANY.			Assayer for Black Jack Mg. Co..	26	iii
Moss-litter used at.	191	vi	Empress gold mine examined by	81	xii
Braunt, W. T.	193	A xvi	Engineer, Triumph g. m.	57	vii
Brazil.			Manager, Bullion No. 2 g. m.	57	ix
Diamonds of.	122	ix	Nino g. m.	95	xii
for drilling	222	v	Reduction works, Ken-		
Nickel coinage in.	161	ii	ora	234, 235	ii
	164	C xiv	Notes by, on Bully Boy mine. . .	45	A xiv
Palladium in porpezite in.	7	A xiv	Kenora custom mill	33	iii
Bread.			Sampling works of, at Kenora..	62	vii
How to cook, hints by Blue.	114	v	Brereton—?	28	iii
Breakhurst Oil Co.			Breslau, WATERLOO TP., WATER-		
Exhibits of, at Buffalo.	25	A xv	LOO CO.		
Breakneck (OR GRAND) falls, OPAS-			Brick-yard at, notes and photo..	103	B xv
ATIKA RIVER, ALG.			Guelph formation near	114	B xiii
Beauty of; photo of	176,	178 A xiii	Pyrrhotite from, analysis	163	ii
Iron-bearing rocks near.	150	A xiii	Brewster, PUTNAM CO., N. Y.		
Power of	136,	145 A xiii	Pyrrhotite from, analysis.	163	ii
Brearton,—?	236, 237, 240	v	Brice, Walter.	54, 57	xi
Breccia.			Brick(s).		
Burke tp., photos	44,	45 B xiv	Flashing in burning of, notes by		
Coleman tp., analysis.	48	B xiv	Baker	54-56	B xv
Creighton tp., photo.	12	C xiv	For street pavements, paper by		
Definition of	529	R C	Gibson	103-132	iii
Lorrain tp., photo.	47	B xiv	<i>See also</i> Brick, vitrified.		
Sayer lake, photo	176,	177	Canada, production, 1887	213	R C
			From sand and lime, notes by		
			Miller	vi	B xiii
			Industry of, 1890, paper on. . .	101-105	i
			1906.	19	A xvi

	Page.	Vol.		Page.	Vol.
Brick (s)—<i>Con.</i>			Brigden, MOORE TP., LAMBTON CO.		
Prices of, according to locality.....	15	A xiii	Brick-yard at, notes.....	75	B xv
Peat dust for.....	215	A xvi	Briggs, Charles F.	132	xii
Statistics, 1886-1887.....	243	R C	Brigstocke, R. W.	83	A xv
1891.....	6	i	Brighton, BRIGHTON TP., NORTHUMBERLAND CO.,		
1892.....7, 11		ii	Beach (near).....	239	A xiii
1893.....7, 10		iii	altitude.....	222	x
1894.....11, 18		iv	Sand-dune at, photo.....	224, 225	x
1895.....11, 12		v	Brighton iron mine, TOWER, MINN.	124	R C
1896.....12, 13		vi	Brighton tp., NORTHUMBERLAND CO.		
1897.....15, 17		vii	Gravel deposit in. <i>See</i> Codrington.		
1898.....11, 12		viii	Brimson, Joseph	241	ii
1899.....13		ix	Brimstone. <i>See</i> Sulphur.		
1900.....11-14		x	Brinsmade, Robert B.		
1901.....12, 13, 30		xi	Notes by, <i>re</i> pyrites in New York		
1902.....12, 13, 27		xii	state.....	190, 191	A xvi
1903.....2, 13	A xiii		Briquettes, clay		
1904.....1, 3, 16	A xiv		<i>See</i> Clay briquettes.		
1905.....1, 4, 17	A xv		Brisseau island, TIMISKAMING LAKE,		
1906.....3, 4, 6	A xvi		Nip.		
United States, production, 1887..	229	R C	Rocks on.....	87	B xiii
Brick clay.			Bristol, GLOUCESTER CO., ENGLAND.		
<i>See also</i> Bricks, Brick Kilns,			Apatite shipments to, 1884-85 ...	443	R C
Brick yards and Clay.			Bristol, PONTIAC CO., QUE.		
Abitibi region.....	207	A xiv	Iron mine at.....	354	R C
Brockville, marine shells in	241	A xiii	25, 26		ii
Credit Forks.....	167	i	Britain. <i>See</i> Great Britain.		
Dundas bay (near).....	238	A xiii	Britannia, NEAR OTTAWA.		
From Leda clay.....	227	ii	Cambro-Silurian rocks near.....	37	B xiii
Holland.....	217	x	Trenton.....	48	B xiii
Interlake pen.....	229	R C	Consolidated Gold Mg. Co.		
Lake Superior, analysis and			Capital and date of charter.....	9	ix
method of working.....	96	xi	Work by, L. of the Woods.....	43	ix
Mattagami valley.....	139	A xv	British Admiralty.		
Milton.....	73	R C	Nickel steel tested and used		
Notes by Bell.....	78	R C	by.....	229, 230, 141, 46, 47, 165	i, ii, vi, c xiv
Gibson.....126-129		iii	<i>See also</i> nickel-steel		
Owen Sound (near).....	122	viii	Aluminium Co.	23	x
Report by Baker.....	Pt. B	xv	America mine, NEAR QUEENSBORO.		
kilns			<i>See</i> next ref.		
Notes on construction, fuel for,			American Development Co.		
flashing, etc.....51-56	B xv		Capital and date of charter.....	24	A xiii
Peat as fuel for.....	216	ii	Operating pyrites near Queens-		
Photos of.....51-53, 58	B xv		boro.....	19, 79	A xiv
<i>See also</i> Brick yards.			94, 95	A xv	
vitrified			21, 80, 161	A xvi	
Early manufacture of.....	18, 19	iv	American Oil Co.		
For street paving:—			Capital and date of charter.....	29	A xvi
cost per sq. yd.....	14	v	Well of, at Leamington.....	116	A xiv
notes by Blue.....103-132		iii	American Pyrites Co.		
16-18		v	<i>See</i> British-American Develop-		
14-16		vi	ment Co.		
yards			American Silver Co.		
London, Ont., photo.....	81	B xv	Capital and date of charter.....	29	A xvi
Ottawa, photo.....	47	B xv	Association.		
Report on occurrences and con-			Visit of, to Ontario, 1897. .	144, 145, 7	vii, viii
ditions of, by M. B. Baker..	56-114	B xv	Canadian Goldfields, Limited.		
Brick Mfg. and Supply Co.			Capital and date of charter.....	11	xi
Capital and date of charter.....	24	A xiii	Colonial Mg. and Dev. Co.		
Bridgeburg, BERTIE TP., WELLAND CO.			Capital and date of charter.....	9	ix
Natural gas supplied to.....	44	xi	Work by, Katherine zinc mine..	54	x
21, 91	A xiv		58		xi
Bridget lake, MICHIPICOTEN DIV., ALG.			Columbia.		
Iron formation on.....	177, 178	A xv	Arsenical ores in.....	102	xi
Bridgewater, ELZEVR TP.					
<i>See</i> Actinolite.					
Briers, Daniel de.	83	B xiv			

	Page.	Vol.		Page.	Vol.
British Columbia.—Con.			Brockville.—Con.		
Coal in, competes with that of N.S.	196	ii	Pyrites near, mining, early.....	149 A	xvi
Gold in, cost of mining alluvial	258	vii	notes by Fraleck..	152, 153 A	xvi
Iron exports from, 1885-1887.....	225	R C	Sea-level at, ancient.....	227	x
Mining laws of, compared to those of Ont.	4, 5	vii	Strait at, ancient width of	243 A	xiii
notes by R.C.	273-275	R C	Works in, chemical	152 A	xvi
ownership of lands	43	i	<i>See also next ref.</i>		
Nickel ores in.....	145 C	xiv	Chemical Co.		
Palladium, platinum and osmium	8 A	xiv	Apatite mined for, Storrington tp.	170	R C
Guiana.			Works of, notes.....	152 A	xvi
Dispute between, and Venezuela	191	v	Mining Co.		
Isles. <i>See</i> Great Britain.			Capital and date of charter.....	11	xi
Lion Gold Mg. and Development Co.			Mica mining by, Bastard tp.	89 A	xvi
Capital and date of charter.....	9	viii	notes and photo	104 A	xv
metalliferous Mines Regulation Act.	286	R C	Peat Fuel Co.	23	ix
North American Mg. Co.	98	R C	Broder tp., Nip.		
South Africa. See South Africa.			Quartzite in	72	i
South Africa Co.	201	v	Brodie, D. M.		
Britnell quarry, NEAR BURNT RIVER STATION, VICTORIA CO.			Mining land agent, Massey.....	145	x
Notes and analysis.....	113, 114 B	xiii	Report by, 1900	146, 147	x
Britton, C. S.	91	ix	1901	81, 82	xi
Broadigan & Co.			Work by, 1900	6	x
Limestone quarrying by, near Crookston ..	99	vii	Robert J.		
Brochunier, S. H.	59	viii	Evidence by, <i>re</i> fertilizers.....	179	R C
47	ix		Manager, Smiths Falls phosphate works.....	252	ii
Brock, Sir Isaac	163 A	xiv	Brogger, Prof. W. C.		
R. W.			Views of, <i>re</i> origin Norwegian apatites	443	R C
Acknowledgments to.....	189	xii	208	xi	
172 A	xv		Broman, —?	133	R C
Analysis by, of nickeliferous rock from Leeds co.	220	v	Bromine.		
Petrography by, of rocks from :— Seeley Bay (near).....	230	vii	United States, production, 1888..	525	R C
228	viii		Bromley tp., RENFREW CO.		
Sturgeon lake, Th. B. d.	105	xii	Albite in	193	ix
Report by, on Larder Lake district	202-218 A	xvi	Limestone in	102 B	xiii
refs. to.....	2, 4, 7, 221 A	xvi	Peristerite in	206	ix
Brock tp., ONTARIO CO.			Trenton formation in. <i>See</i> Douglas.		
Peat in. <i>See</i> Cannington.			Brompton lake, ORFORD TP., QUE.		
Trenton limestone in.....	89 B	xiii	Millerite on.....	59 B	xiv
Brockville, ELIZABETHTOWN TP., LEEDS CO.			Bromus ciliatus.		
Attempt in, to gasify cordwood..	484	R C	Ottawa (near).....	225	x
Brick-yard at	77 B	xv	Bronson, E. H.		
Caoxenite from, near	193	ii	Farming by, Timagami dist.	172	ix
Erie clay at.....	10 B	xv	<i>See also</i> Lancaster farm.		
Limestone quarries at, notes and analyses	72, 73 B	xiii	President, Ottawa Carbide Co.	21	x
Marine shells at, and near.....	222	x	Frank.	21	x
241, 242 A	xiii		Bronson, DUNGANNON TP., HASTINGS CO.		
Morainic drift at.....	221	x	Falls near, photo.....	64, 65	xi
Palaeozoic rocks near.....	22 B	xiii	232, 233	viii	
Calciferous formation	41	R C	farm. See Lancaster farm		
Peat bog at, analyses	203	xii	lake, WISNER TP., NIP.		
company formed to work	227 A	x	Beaches near, altitude.....	103 C	xiv
idle, 1903	29 A	xiii	Nickel prospecting near	152	x
notes.....	205, 206	xii	Norite on.....	202 A	xiii
photo..... facing	192	xii	73 C	xiv	
Pyrites near, geological relationship.....	182 A	xvi	Brooke tp., LAMBTON CO.		
			Oil in, boring for	15	viii
			24 A	xiii	
			111 A	xv	
			Brooke's weed-killer.	115	xi
			Brookholm, SARAWAK TP., GREY CO.		
			Clay in, for cement	32	xii
			17 B	xiii	
			Brooklin, WHITBY TP., ONT.		
			Ballast pits at..	238 A	xiii

	Page.	Vol.
"Brooklyn" ss.....	186, 187	iv
Brooklyn Nickel Works.		
Tests at, on nickel-steel.....	145	ii
Brooks, A. S.	263	v
Annie.....	74 A	xvi
T. H.	115	ix
Hudson Silver Mg Co.	140	x
Capital and date of charter.....	115	ix
Lake, MICHIPICOTEN DIV., ALG.	29 A	xvi
Dolomite north of.....	157	xi
Iron range on and near	154, 173	xi
notes by Coleman	161, 162	xi
Broomhead, Barnard Platts		
Evidence by, re royalties in Gt.	25	i
Britain.....	31	v
Brophy, A.	38	vi
G. P.	24	x
J. B.	24	x
Brosowski peat-digger.	216	ii
	209	xii
Brothers, John	255	ii
Brotherton, G. H.		
Manager for Algoma Commercial		
Co.	139	x
Sawbill g. m.	265, 266	xi
Mining in Michipicoten div.....	64	vii
	115	ix
	140	x
	73	xi
Brotherton hill, NEAR PAINT LAKE,		
MICHIPICOTEN DIV., ALG.		
Muskeg at foot of	315 A	xiv
Rocks of.....	329, 354 A	xiv
Trough at	339 A	xiv
Brough, B. H.		
Notes by, on treatment of iron		
ore, Sweden	338	xii
ref. to.....	341	xii
Brougham tp., RENFREW CO.		
Graphite in	199	ix
mining.....	30	v
	25 A	xvi
<i>See also</i> Black Donald mine.		
Limestone in	101 B	xiii
Broughton, W. K. (H B.C.)		
Acknowledgments to.....	196	viii
House and family of, photo 200,	201	viii
Broughton tp., BEAUCE CO., QUE.		
Asbestos in, analysis	97	iii
Broult, W. A.	231	iv
Brower tp., Nip.		
Soil and timber in.....	126 A	xv
Brown, Andrew F.		
Gold mining by, Michipicoten		
div.....	102	vii
	102	viii
	115	ix
	113, 115, 140	x
	65, 80	xi
	48 A	xiii
C. Barrington.		
<i>See also</i> Judd, J. W.		
Notes by, on rubies.....	241	viii
C. L.	100	x
C. T.	124	vii

	Page.	Vol.
Brown, D. N.	63 A	xv
Daniel	272	xi
David.....	121	R C
	52 B	xiii
David H. <i>See</i> Browne.		
E. <i>See</i> Black Jack Mg. Co.		
Edgar		
Iron mining by, Anjigomi lake..	179 A	xv
Francis R. F.		
Notes by, on Aikman peat process	199, 200	i
Gerald C.		
Surveying by, for the Montreal		
Co.....	34	R C
	139	vi
J.		
Brick-making by, Carlton West .	107 B	xv
J. C. (of N. Z.).....	513, 520	R C
James		
<i>See also</i> Brown and Zimmerman.		
Quarrying by, Stamford tp.	96	i
Part owner, Craig gold mine....	92	vii
John		
Quarry of, Thorold.....	164 A	xiv
analysis of limestone		
from.....	15, 16 B	xiii
Joseph	113	i
Lucius P.....	296	xi
Mrs.	48	iii
Prof. R. T.....	115	iii
Samuel	98	ii
T. F.		
Evidence by, re royalties in Gt.		
Britain.....	37, 38	i
T. M.....	43 A	xiii
Thomas		
Timbernan, Massey Station mine	32 A	xv
Thor		
Provincial silver mine discovered		
by	10 A	xvi
& Co. (PITTSBURG)		
Labour employed by, statistics..	370	R C
Iron output of, 1893.....	119	ii
and Zimmerman.		
Limestone quarrying by, Stamford		
tp.....	96	i
	119 B	xiii
Bros.		
Brick-making by, Carlton West .	107 B	xv
Mount Denis. 29		xii
hematite. <i>See</i> Limonite.		
lake, N. OF L. SUPERIOR, TH.		
B. D.		
Rocks north of	304 A	xiv
Browne, David H.		
Chemist to Copper Cliff mine ...	270	v
	16 C	xiv
Evidence by, before R. C.....	121	R C
Manager, Copper Cliff smelter ..	63 A	xvi
Notes by, on smelting at Copper		
Cliff.....	65 A	xvi
Polydymite analysed by	159 C	xiv
Jane	102	viii
	115	ix
	140	x
	73	xi
R. H. C.	31 A	xvi
Browning, A. G.	68	vi
	46	xii

	Page.	Vol.		Page.	Vol.
Brownsville, DEREHAM TP., OXFORD			Bruce Mines village.—Con.		
co.			Boulders at, jasper-conglomerate	156	viii
Brick-yard at, notes	86,	87 B XV	Description of	36	iii
Bruce ?	115	xi	Forest fire at, 1864	206	v
co.			Rocks at and near	72	i
Brick-making in, notes by Baker	59,	60 B XV		158-162	viii
Erie clay of, character	126	iii	Huronian	253	v
Limestone in, Corniferous	25 B	xiii	thickness	17	R C
notes by Miller	34 B	xiii	greenstone dike, photo	136	viii
Salt works in, number of, 1897	24	vii	quarried for road metal	125, 169	viii
1898	17	viii	paper by Blue	13-16	v
			Coleman	125	viii
Copper Mines, Ltd.			Terraces near, altitude	152, 155	viii
Capital and date of charter	10	x	Mines & Algoma Railway Co.	119	x
mines, BRUCE MINES, ALG.			Mines dist.		
See also Bruce Mines village and			Copper mines in, notes by Cole-		
Bruce Mines dist.			man	124, 125	viii
Bornite in	212	vi	Iron mining in, 1897	97	vii
	195	ix	Bruchmueller, W.		
Calcite in	195	ix	Early history by, of cobalt indus-		
Chalcocite in	196	ix	try in Saxony	74-90 B	xiv
Copper in, mode of occurrence	88	R C	Brudenell, BRUDENELL TP., REN-		
	175	i	FREW CO.		
Copper pyrites in	212	vi	Cambro-Silurian at	104 B	xiii
Cost of mining at	66	iii	tp., RENFREW CO.		
Diamond drilling in	16 A	xvi	Corundum in, character	241	vii
Dolomite crystals at	198	ix	crushing curve of		
Evidence re, before R.C.	68, 92	R C		240, 241	vii
Exhibits of, at Pan - American			crystals, photo	222	vii
Exhibition	86	xi	notes by Blue	246	viii
Failure of, causes	18, 96,	101 R C	Miller	221	vii
	177	ii	Grenville series in	56 A	xiii
Gold in ore of	25	R C	Nepheline-syenite in	226, 229	vii
History of, detailed	94-96	R C	Titanite in	211	ix
early	91	i	Zircon in	212	ix
Mill of, photo	144, 145	x	Bruges, BELGIUM.		
Map of, sketch	91	R C	Peat used in, for sanitation	216	i
Mispickel in	205	ix	Brughat—?		
Nomenclature of	96	R C	Calorific power of fuels given by	201	iii
Notes on, 1898	38	viii	Brule, C.P. Ry., R.R.D.		
1899	94, 95	ix	Gold mining east of. See New		
1900	118, 119	x	Klondike.		
1901	269, 270	xi	Rocks near	169	vii
1902 (idle)	98	xii	granitoid-gneiss	124	vii
1903	81 A	xiii	creek, CONNEB TP., TH.B.D.		
and photos	70-72 A	xvi	Pyrites mining on	107	x
by Bell	23	R C	harbour, L. SUPERIOR.		
Blue	35, 36	iii	Copper mining near	63	xi
Coleman	125	viii	Eruptive rocks on and near	191 A	xv
Merritt	91	R C	Gold mining east of	101	vii
Palmer	174	ii	lake, SHEBANDOWAN L A K E		
Operating, 1901	23	xi	DIST., TH.B.D.		
1905	47 A	xv	Description of, by Blue	137	v
1906	15 A	xvi	portage, BETWEEN BARIL AND		
Output	101	R C	BRULÉ LAKES, TH. B. D.		
	171	i	Forest fire at	205	v
	122	iv	river, BRULÉ BAY, L. SUPERIOR.		
	209	v	Character of	176 A	xv
	22	xi	Brumell, H. Peareth H.		
Purchased by Copper Mg. and			Notes by, on Petrolea oil wells	113 A	xiv
Smelting Co	12, 68 A	xv	Report by, on oil and gas, extract	111 A	xiv
Quartz-crystals from	208	ix	ref. to.	89 A	xiv
Smelting operations at	378, 402-464	R C	Brunel, Sir I. K.	118 A	xiv
System of working	94	R C	tp., P.S.D.		
Taken over by an English Co.	37	x	Boring in, for copper and nickel	59	xi
Unwatered, 1898	18	viii	<i>Brunella vulgaris.</i>		
Mines village, ALG.			Abitibi dist.	242 A	xiv
See also Bruce Mines dist.			Mattagami valley	150 A	xv
Agricultural land near	103	iv			

	Page.	Vol.		Page.	Vol.
Brunner, ELLICE TP., PERTH CO.			Buck=deer rapid, AMTIBI RIVER.		
Peat bog at, analysis.....	203	xii	Character of.....	186 A	xiv
idle, 1903.....	29 A	xiii	Country around, description....	205 A	xiv
notes.....	205	xii	Hornblende-gneiss at.....	206 A	xiv
photo.....	192	xii	Notes on river near.....	181	viii
plant for, destroyed			Photo. of river near.....	229 A	xiv
by fire.....	32 A	xiii	Soil from, analysis.....	246 A	xiv
Brunswick, GERMANY.			Bucke Silver and Cobalt Mg. Co.		
Peat used in, for sanitation.....	216	ii	Capital and date of charter.....	29 A	xvi
post, MISSINAIBI RIVER, ALG.			tp., NIP.		
Country near, description...139,	140	ix	Cobalt in.....	11,	86 A
river, MISSINAIBI RIVER, ALG.	195	viii	Map of.....	97 A	xiii
Brunton, J. D.			Rocks in, breccia, photo... 44,	45 B	xiv
Peat process of.....	207	ii	columnar structure....	38 B	xiv
Brush, Prof. George J.	505	R C	greenstone, photos 42,	43 B	xiv
Brussels, GREY TP., DURHAM CO.			slate.....	49 B	xiv
Salt at.....54,	55	R C	photo.....	37 B	xiv
boring for.....	185	R C	Silver deposits in, notes by Miller	96 A	xiii
notes by Rogers.....	188	R C	mining.....	7 A	xv
works.....	22 A	xiii	Smaltite in.....	28 B	xiv
	20 A	xiv	Buckeye Portland Cement Co.		
Oil Co.			Composition of impervious mor-		
Capital and date of charter.....	29 A	xvi	tar given by.....	173 A	xiv
Bruyne, Armand de	49 A	xvi	Buckham Bay, CARLETON CO.		
Bryan, H. J.	102	viii	Cambro-Silurian rocks near.....	38 B	xiii
	115	ix	Buckhorn, KENT CO.		
	140	x	Boring near, for water.....	127	i
Bryant, Samuel H.	245	iv	Buckhout, N. W.	338	xii
	68 A	xvi	Buckingham, Lieut. B. H.		
Bryce, Rt. Hon. James	4	vii	171, 175, 178,	179 C	xiv
Brydges bay, BIG-STONE BAY, L. OF			Mg. Co.	436	R C
THE WOODS.....173, 175,	177	v	Buckingham, OTTAWA CO., QUE.		
<i>Bryozoa.</i>			Mica mining near.....	86 A	xiv
Paris. Ont.....91,	92 B	xiii	tp., OTTAWA CO., QUE.		
Rockford.....	143	xii	See also Emerald apatite mine.		
Thedford.....	154	xii	Apatite in, mining.....169,	436	R C
	69 B	xiii	mode of occurrence..	178	R C
Walpole tp.....	143	xii	Buckland —?		
Woodstock.....	148	xii	Peat-drying process of.....	196	i
Bryson, John	44	x	Buckley, H.	140	x
LITCHFIELD TP., QUE.				73	xi
Leaf silv er near.....	207	vi		65	xii
island, L. TIMISKAMING, QUE.				48 A	xiii
Limestone on.....	85 B	xiii	J. P.	65	xii
Syenite near.....	104 B	xiii		48 A	xiii
BTO 1 iron location, E. OF L. NIP-			lake, DOURO TP., PETERBOROUGH CO.		
IGON, TH. B. D.			Marl from.....	16	x
Analysis of ore from: rocks in,				32	xi
dip.....144,	145 A	xvi		149 A	xiv
BTO 3 and BTO 4 iron locations,			Bucknall mine, L. TIMISKAMING...	50 A	xvi
E OF L. NIPIGON, TH. B. D.123,	132 A	xvi	Buckshot creek, MISSISSIPPI RIVER,		
Bubbling Water, MISSINAIBI RIVER,			ONT.		
ALG.			Rocks on, strike of.....	203	xi
Natural gas at.....	128	iv	Buckthorn lake, PETERBOROUGH CO.		
<i>Bubo virginianus.</i> See Owl, great			Limestone escarpment in ....97,	113 B	xiii
horned			Bucyrus Brick and Terra Cotta Co.		
Buchanan, A. P.			Analysis of shale used by.....	119	iii
Gold mining by, Manitou Lake			Budd, J. B.	321	R C
reg.....	62	ix	Buddle.		
President, Glass Reef G. Mg. Co.	99	x	Description of.....	529	R C
C. G.			Budischie, Anthony	55, 57	xi
Magnetic iron ore separator of			Buell, Elbert L.	34	xii
346,	347	R C		19 B	xiii
	328	xii		139 A	xiv
Thomas			John		
Brick-making by, Port Credit... 89 B		xv	Brick-yard of, Thornbury.....	66 B	xv
Buck lake, LOUGHBORO TP., FRONTE-			Buffalo.		
NAC CO.			Rainy Lake dist., scarce.....	97	iv
Mica in.....	98	vii	Remains of, in Desjardins canal.	229 A	xiii
mining. See Stoness mine.					

	Page.	Vol.
Buffalo, U. S.		
Brick pavements in	108	iii
Exhibition at, 1901. <i>See</i> Pan-American Exhibition.		
Gas in, record of wells.....	161, 162	i
piped to, from Ont.....	128	i
91 A	xiv	
23 A	xv	
25 A	xvi	
Lower Helderberg formation at..	153	xii
Sulphuric acid works at	184 A	xvi
Water -lime series at.....	118 B	xiii
Chief		
Photo of.....	184, 185	viii
and Leamington Oil and Gas Co.		
Capital and date of charter.....	24 A	xiv
Exhibits of, at Buffalo.....	25 A	xv
Well of, Mersea tp.....	116 A	xiv
Consolidated Gold Mg. Co.		
Capital and date of charter.....	9	ix
gold mine, EAGLE LAKE, R. R. D.		
Notes on, 1903.....	65 A	xiii
Mg. and Development Co.		
Capital and date of charter.....	9	viii
Mining Co.		
Capital and date of charter.....	29 A	xvi
Dividends, 1906-7.....	13 A	xvi
Exhibits of, at Pan - American Exhibition.....	25 A	xv
Owners, American silver mine, Cobalt	7 A	xv
Producing, 1901.....	8 A	xvi
Shipping, 1905.....	15 B	xiv
<i>See also</i> Buffalo silver mine.		
Natural Gas Fuel Co.		
Notes on, 1890	133	i
Northwestern Gold Co.		
Capital and date of charter.....	9	viii
silver mine, COBALT, NIP.		
Notes on and photos of.....	76-78 A	xv
Bugs.		
Abitibi dist.....	129 A	xiii
lace		
Abitibi dist.....	128 A	xiii
spittle		
Abitibi dist.....	129 A	xiii
Buhr=stone.		
Definition of.....	529	R C
Building stone.		
<i>See also</i> Structural material.		
Canada, production, 1870.....	209	R C
1880.....	209	R C
1881-1887... 244		R C
1886.....	243	R C
1887... 209, 213,		
229, 243		R C
1888... 72, 525		R C
Credit Forks.....	43, 73, 74, 79	R C
Exhibit of, at Pan-American Exhibition.....	87, 88	xi
World's Fair,		
notes on.....	186	ii
Evidence <i>re</i> , before R. C. . . .	79-88	R C
"Great Huronian belt," notes by Bell.....	93	i
Guelph formation.....	45	R C
Imports of,—why import?.....	15 A	xiv

	Page.	Vol.
Building stone.—<i>Con.</i>		
Industry of, 1890, paper by Blue.	95-107	i
1906.....	18, 19 A	xvi
Lake Superior, N. shore, evidence before R. C. . . .	61, 62	R C
Peninsula.....	113	vi
Medina formation	43, 73	R C
Notes on, by Merritt.....	72-78	R C
Paper on, by Coleman.....	133-136	iii
Rainy Lake region.....	76	iv
Statistics, 1870, 1880.....	210	R C
1887.....	210, 229	R C
1891.....	6	i
1892.....	7, 11	ii
1893.....	6, 10	iii
1894.....	11, 12	iv
1895.....	11	v
1896.....	11-13	vi
1897.....	15-17	vii
1898.....	11-13	viii
1899.....	13	ix
1900.....	11, 12, 14	x
1901.....	12, 13, 30	xi
1902.....	12, 13, 27, 28	xii
1903.....	2, 13 A	xiii
1904.....	1, 3, 15 A	xiv
1905.....	1, 4 A	xv
1906.....	3, 6, 19 A	xvi
United States, production, 1887..	213	R C
1888..	525	R C
<i>See also</i> Structural material.		
Bulgaria.		
Nickel coinage in	161	ii
Bull, Price & Co.		
Gold mining by, Seine river	67	v
bay, MISSINAIBI RIVER, ALG.		
Rocks on.....	138, 143 A	xiii
-dog gold mine, L. OF THE WOODS, R. R. D.		
Mill erected at.....	235	ii
Notes on, by Blue.....	25, 26	iii
-dog tabanus.		
Abitibi dist.....	128 A	xiii
river, S. CAROLINA.		
Apatite deposits on.....	441	R
"Bulletin du Commerce."		
Extract from, <i>re</i> cobalt industry.	72 B	xiv
Bullets.		
Arsenic for hardening.....	114, 117	xi
Nickel ".....	146, 147	ii
<i>See also</i> Ammunition.		
Bullion gold mine, N. E. OF KENORA, R. R. D.		
Mining Co. <i>See</i> Gold Bullion Mg. Co.	36	ix
No. 2 gold mine, SHOAL LAKE, L. OF THE WOODS.		
Depth of, 1899.....	35	ix
Idle, 1900.....	79	x
Notes on, 1899.....	57	ix
Number Two Mg Co.		
Capital and date of charter.....	9	ix
Directors of.....	79	x
Work by. <i>See</i> Bullion No. 2 gold mine.		
Bullock Manufacturing Co.	168	iv

	Page.	Vol.
Bully Boy gold mine, CAMP BAY, L. OF THE WOODS.		
Depth of, 1900	35	ix
Idle, 1898.....	60, 276	viii
1899.....	51	ix
1900.....	73	x
Notes on, 1904.....	45 A	xiv
1905.....	58 A	xv
Work at, 1906.....	60 A	xvi
Bulmer, H.	16	iii
Bulstrode, BULSTRODE TP., ARTHA-BASKA CO., QUE.		
Peat drying experiments at..	198, 203	i
	198, 206	ii
Bunn, Charles	50	v
	105	vi
and Scovil claim, BAG BAY, SHOAL LAKE, L. OF THE WOODS	87	v
Bunting, Robert	118	R C
Bur marigold.		
Abitibi dist.....	253 A	xiv
Burchard, John E.	74 A	xiii
	71 A	xv
Burdette, D. B.		
See also Northern Gold Co.		
Winnipeg Consolidated mine.		
Gold mining by, L. of the Woods.	116	R C
	20-24	iii
President, Northern Gold Co....	232	ii
Bureau of Mines.		
Act creating, ref. to	4	i
Award to, Pan-American Exhibition.....	89, 90	xi
Correspondence statistics of, 1892.	12	ii
Duties of	228	ix
Establishment of, recommended.	xxiv	R C
Objects of.....	407, 408	R C
Burford, BURFORD TP., BRANT CO.		
Post-glacial gravel east of.....	142	xii
tp., BRANT CO.		
Corniferous formation in	46	R C
Burgarde & Son, F.		
Pottery of, Egmondville, photo.	119 B	xv
Burgess, A. C.	112	vii
D.	73	xi
F. D.	89 A	xv
G. A.		
Brick-yard of, Carleton Place...	75 B	xv
George V.	74	ix
gas well, E. TILBURY TP., KENT CO.		
Notes on, by Knight	99 A	xvi
Mines, CARLOW TP., HASTINGS CO.		
Corundum mining at.....	21 A	xvi
tps., LEEDS AND LANARK COS., ONT.		
Albite in	193	ix
Anhydrite in	193	ix
Apatite in	172	R C
	242	viii
	194	ix
See also Otter mica mine.		
Otty lake.		
character of veins	440	R C
mining, 1892.....	251, 252	ii
1893	195	iii

	Page.	Vol.
Burgess tps.—Con.		
Apatite in.— <i>Con.</i>		
mining, 1904..	86 A	xv
evidence before R. C.	167, 168, 174-180	R C
Asbestos in.....	195	ix
Barytes in.....	53	R C
	195	ix
Chalcopyrite in.....	196	ix
Corundum in	194	ii
	197	ix
discovery.....	242	viii
exhibited at World's Fair....	190	ii
notes.....	62	vi
	214, 218	vii
Graphite in.....	199	ix
Iron ore in, specular	138	R C
Limestone from, analysis.....	70 B	xiii
Loganite from, analysis.....	201	ix
Meerschaum in	138	R C
Mica in.....	203	ix
mining, 1893.....	194	iii
1895.....	276-278	v
1897.....	98	vii
1900.....	131, 132	x
1901.....	289, 290	xi
1903.....	91, 93 A	xiii
1904.....	85 A	xiv
1905.....	104, 105 A	xv
1906.....	87-89 A	xvi
evidence before R. C.	148, 150	R C
phlogopite.....	207	ix
See also Martha mica mine and Levett and Davis mica mine.		
Orthoclase in	205	ix
Perthite in	194	ii
	206	ix
Pyroxene in	207	ix
Ruby crystals in.....	228	vi
Serpentine in	209	ix
Sphene (Titanite) in	242	ix
Spinel and Sulphur in.....	210	ix
Tremolite and Turgite in.....	211	ix
Wilsonite in.....	212	ix
Wollastonite in	194	ii
	212	ix
Burjorkova, HUNGARY.		
Gasifying of wood in, for iron smelting.....	484	R C
Burke, D. F.		
Evidence by, re free-trade	233	R C
mining laws....	312	R C
technical instruction.....	426	R C
Gold mining by, near Jackfish..	266	vi
Thanks to.....	260	vii
	282	viii
Stevenson		
Evidence by, re nickel, before Dingley tariff committee.....	45	vi
Burketon, DARLINGTON TP., DURHAM CO.		
Stratified deposits at, altitude...	223	x
Burkhardt, Hans	86-88 B	xiv
Burks Falls, ARMOUR TP., P. S. D.		
Brick-yard at	88 B	xv
Iron near, boring for	31 A	xiv
Nickel mining near.....	286	xi

	Page.	Vol.		Page.	Vol.
Burleigh Falls, BURLEIGH TP., PETERBORO CO.			Burnt Knoll.—Con.		
Granite and lithographic-stone near	213	viii	See also B Imont gold mine.		
Limestone escarpment S. of.....	97	B xiii	Ledyard gold mine.		
Water-power at.....	213	viii	lake, W. OF RAINY LAKE, R. R. D.		
tp., PETERBORO CO.			Keewatin rocks on.....	61	iv
See also Burleigh Falls.			narrows, CLEARWATER LAKE, R. R. D.		
Corundum in.....	205	viii	Rocks near	83	iv
Magnetite in, analysis.....	202	ix	River, SOMERVILLE TP., VICTORIA CO.		
Peristerite in	206	ix	Black River formation near.....	113, 114	B xiii
Rocks in.....	212, 213	viii	river, BALSAM LAKE, VICTORIA CO.		
Tourmaline from, exhibited at Chicago	190	ii	Iron ore on.....	52	R C
Burley, T. S.	115	ix	Smelting works on. See Kinmount.		
gold mine, BALD INDIAN BAY, L. OF THE WOODS.			Burntwood portage, ABITIBI RIVER.	184	viii
Crib of, description	53	viii	Burpee tp., MANITOULIN ISLAND, ALG.		
photos	16, 17	vii	Mica prospecting in	280	v
32, 33		ix	Burritt lake, METHUEN TP. See Bar-		
Depth of, 1899.....	35	ix	rett lake.		
Notes on, 1897.....	48, 115	vii	Burrough Larder Lake Gold Mg. Co.		
1898.....	46, 47, 52-54	viii	Capital and date of charter.....	28	A xvi
1899.....	42	ix	Burrows, A. G.		
1903.....	60	A xiii	Analyses and assays by of:		
Plans and section of	64, 65	viii	Cobalt ores.....	99, 100	A xiii
Gold Mining Co.			Throughout Pt. B	xiv	
Capital and date of charter.....	7	vii	gravel and sand, Savant lake .	90	xii
Officers of	52	viii	gypsum, Moose river.....	159	A xiii
Burlington, DES MOINES CO., IA.			iron ores, Animikie range....	168	A xv
Paving clay from, analysis.....	120	iii	Nipigon Lake dist..	144	A xvi
Burlington, RACINE CO., WIS.			Steep-rock lake	306	xii
Diamonds from (reported).....	121	ix	limestone, Animikie range....	163	A xv
bay, HAMILTON.	29	iv	Ontario. Throughout Pt. B	xiii	
heights, HAMILTON.			eastern	156	xii
Description of	228	A xiii	marl, N. of Montreal river....	209	A xiv
Iroquois beach at.....	229, 238	A xiii	peat, Abitibi dist.....	209	A xiv
Burma.			Mattagami valley.....	128	A xv
Corundum and rubies of.....	62	vi	pyrites, Darling tp.....	154	A xvi
213		vii	various	150	A xvi
notes... 229-233, 241,	242	viii	rocks, Abitibi dist.....	117, 118	A xiii
Oil-field of, ref. to.....	115	i	Animikie range.....	171	A xv
Burnard, T. K.	60	A xvi	Appointment of, 1902	4, 72	xii
Burnet, R. L.	31	ix	1903	x	A xiii
Burnette—?	78	A xvi	Assistant in Assay office, 1901...	79	xi
Burnham—?	48	iii	Dyscrasite found by, in Cobalt		
Burns, J. C.	273	xi	ores.....	98	A xiii
81		A xiii	Notes by, on pyrites on Matta-		
J. E.	54	A xiv	gami river.....	180	A xvi
Robert	218	i	samples from Grace		
34		v	g. m.....	68	xi
S. R.	118	B xv	Report by, and Welis, on Assay		
mica mine. See Byrnes mica			office, 1902.....	68-72	xii
mine.			1903.....	50, 51	A xiii
Burnside, T. E.	295	xi	1904.....	31-34	A xiv
39, 42, 94		A xv	1905.....	36-38	A xv
Thomas	154	A xvi	1906.....	47, 48	A xvi
Burnt island, L. TIMISKAMING. See			Surveys by, Mattagami valley,		
Mann island.			ref. to.....	122	A xv
island, MINNITAKI LAKE, R. R. D.			Arthur S.	95	ix
Gold mining on.....	70	viii	Burstall, Edward	21	ii
island, L. SUPERIOR.			Burt, T.	102	vii
Photo of part of	128, 129	vi	Burton, E. B.		
Silver Islet vein in	34, 35, 197	R C	Iron mining by, Aberdeen tp....	143	R C
138, 153		vi	Jones & Co.	169	iv
Knoll, BELMONT TP., PETERBORO CO.			tp, P. S. D.		
Gold mining at	51	iii	Limestone in	93	B xiii

	Page.	Vol.		Page.	Vol.
Burwash, Edward M.			Butwell Bros.		
Jaspilite found by, Shining-tree lake.....	167, 178, 182, 183	x	Brick-making by, Toronto.....	110 B	xv
Mikado gold mine visited by.....	105	vi	Buxton, E. T.	140	x
Report by, on the Geology of the Nipissing-Algoma line	167-177	vi	—?.....	57 A	xvi
Work by, 1895.....	47, 75, 95	v	Buzzo, B. E.	265	xi
Dr. John	40			60, 63	xii
Burwash, SUSSEX, ENG.	356	R C	Byers, B. M. & Co.		
lake, TIMAGAMI FOREST RESERVE, NIP.			Iron output of, 1893.....	118	ii
Ancient valley north of.....	182	vi	Labour employed by, statistics .	370	R C
Iron ore on.....	15 A	xv	Bygrove (CROSBY) iron mine, N.		
	16, 74 A	xvi	CROSBY TP., LEEDS CO. 35, 44-46, 50		ii
Map of, sketch.....	170	vi	Byng inlet, GEORGIAN BAY.		
Rocks around.....	171	vi	Rocks near.....	67, 79	i
Striae on, direction.....	181	vi	Byrne, F. P.	41	xi
Busck, Herr	211	ii	Byrnes, Patrick. See Byrnes mica mine.		
Bush, C.	102	vii	mica mine, N. BURGESS TP., LANARK CO.		
	102	viii	Notes on, 1903.....	91 A	xiii
	115	ix	Prospecting in, 1904.....	85 A	xiv
E.	102	viii	1905.....	103 A	xv
Flora	115	ix	Surface work on, 1900.....	132	x
Myron P.	156	vi	1901.....	290	xi
bay, FRONTENAC CO.			Byron tp., MICHIPICOTEN DIV., TH. B. D.		
Rocks near.....	43, 44 B	xiii	Description of shores of.....	134	viii
Winning gold mine, NEAR MINE CENTRE, R. R. D.	83	viii	Tin salting in.....	138, 139	viii
Bushell, William			<i>Byrrhus ottawaensis.</i>		
Brick-making by, Carlton West..	107 B	xv	Ottawa.....	32 B	xv
Bushnell Oil Co.	17	vii	Greens creek.....	224	x
Business lake, TIMAGAMI DIST., NIP.			Byskoven, LAURVIK, NORWAY.		
Jaspilite near.....	171	x	Laurvikite from, analysis.....	211	xi
Bussman-Gray Molybdenum Mg. and Reduction Co.			Byssolite. See Asbestos.		
Capital and date of charter.....	37 A	xiii	Bytownite.		
Buster Brown Oil and Gas Co.	25 A	xv	Bathurst tp.....	195	ix
Butchart, A. S.			Seine River dist.....	100	v
Manager, North American Chemical Works.....	110	i	South Sherbrooke tp.....	226	viii
President, AD2 Gold Mg. Co.....	129	vii		195	ix
Superintendent, Lakefield Portland Cement Co.....	31	xii	analysis.....	227	viii
	17 B	xiii	Tudor tp., rock resembling.....	199	xi
R. P.	108	ix	Byturns, pale brown		
	32	xii	Abitibi dist.....	128 A	xiii
	148 A	xiv			
Butcher, H.			Cabbage.		
Brick-making by, Peterboro	95 B	xv	Mentioned as growing at:—		
Buteman, Thomas	515	R C	Fort Matachewan.....	240 A	xiv
Butler lake, WHITE-CLAY RIVER, ABITIBI RIVER.			Fort Mattagami.....	121 A	xiii
Description of, by Bolton.....	184	xii	Garden River, near.....	197	viii
Butler, R. R. D.			Goulais River valley.....	197	viii
Route from, to Sturgeon lake. 147, 148		xi	Lac des Mille Lacs.....	114	v
Butt tp., NIP.			Mississagi river.....	164	xii
Mica mine in.....	172	ix	New Post, Abitibi dist.....	186	viii
Butte, SILVERBOW CO., MONTANA.			Night-hawk lake.....	123 A	xiii
Coal in, price of.....	111	ii	Rainy river.....	163	v
Butterfield, D. W.			butterfly.		
Evidence by, before R. C. re:			Abitibi dist.....	129 A	xiii
Dakota School of Mines.....	424	R C	Cabin Branch pyrites mine, NEAR DUMFRIES, VIRGINIA.		
Vermilion mine.....	105, 113	R C	Thickness of lenses in.....	192 A	xvi
G. S.	73	xi	Cabot head, GEORGIAN BAY.		
Butterflies.			Hematite at.....	140	xi
Abitibi dist.....	129 A	xiii	Rocks at.....	35, 36 B	xiii
Buttes, The. See Creighton nickel mine.			Cachemere. See Kashmir.		
Buttrey, L. H.	102	viii	Cacoxenite.		
			Elizabethtown tp.....	195	ix
			Brockville.....	193	ii

	Page.	Vol.		Page.	Vol.
Cactus.			Calciferous formation.—Con.		
L. of the Woods.....	96	iv	Notes on, by Bell.....	41	R C
51	v		Position of, in Silurian	2	R C
Rainy lake.....	96	iv	22	B xiii	
51	v		Renfrew co.....	114	B xiii
Cadham, J. G.	136	i	Thickness of, in oilfields.....	96	A xiv
Cadieux, Damase	255	ii	Calcite (CALC SPAR).		
Caen, NORMANDY, FRANCE	529	R C	See also Iceland spar.		
Cain, Cæsar	47	xii	Annaberg, Saxony.....	61, 62	B xiv
Brick Co.			Association of, with apatite.....	438, 442	R C
Capital and date of charter.....	25	A xv	Barrie tp., cutting crystalline		
Clay used by, analysis.....	31	B xv	limestone.....	206	xi
Yard of, notes	47	B xv	Bruce mines.....	175	ii
photo.....	61	B xv	Coleman tp., analysis.....	23	B xiv
Cainozoic. See Tertiary.			Dean lake, Thompson tp.....	69	A xv
Cairngorm (SMOKY QUARTZ).			Determination of.....	205, 222	vi
Description of.....	224	vi	Exhibit of at World's Fair.....	187	ii
Calabogie, BAGOT TP., RENFREW CO.			Hardness of.....	448, 535	R C
Graphite near. <i>See</i> Black Don-			202	vi	
ald gr. mine.			214	vii	
Iron ore near, mining.			Lanark tp.....	193	ii
<i>See also</i> Calabogie iron mine ;			Madoc tp., gold nuggets in.....	28	R C
Wilson iron mine.			North Burgess tp.....	440	R C
1897.....	234	vii	Nova Scotia, gold-bearing.....	67	R C
1899	103	ix	Occurrences of.....	195, 196	ix
tests on, with Wetherill separa-			Orford tp., Que., with millerite.	213	vi
tor.....	336	xii	Port Colborne	14	B xiii
Summer mining class at.....	55, 56	xii	Specific gravity of.....	202	vi
iron mine, CALABOGIE, REN-			Test for.....	450	R C
FREW CO.			Calcium.		
Notes on, by Merritt.....	128	R C	Proportion of, in earth's crust...	447	R C
Ore from, at World's Fair	79	ii	carbide.		
Output of.....	135	R C	Industry of, 1896.....	6	vi
lake, RENFREW CO.			Lime for.....	2, 3, 4	B xiii
Asbestos near.....	195	ix	Limestone for, from Port Col-		
Iron mining near.....	59	ii	borne and Smerkston.....	116	B xiii
notes by Campbell			Manufacture and uses of.....	32-41	v
136, 137	R C		27-32	vi	
Limestone north of.....	102	B xiii	19-22	vii	
Talc near.....	210	ix	18	A xiii	
Mining Co.			notes by Blue.....	139-141	iv
Capital and date of charter.....	7	vii	paper by Lewes	142-151	iv
Exhibit from, at Pan-American			Wilson and Suckert		
Exhibition.....	86	xi	152-166	iv	
Notes on, by J. S. Campbell.....	136	R C	of at St. Catharines	18	A xiii
Work by, 1895.....	275	v	Statistics of, 1897.....	15	vii
1899.....	103	ix	1898.....	11	viii
1900.....	129	x	1899.....	13	ix
Calamine (ZINC SILICATE).			1900.....	11, 12, 21	x
Description of.....	529	R C	1901.....	12, 13, 36	xi
Hardness of.....	202	vi	1902.....	12, 13, 37	xii
Hints on, to prospectors.....	460	R C	1903.....	2, 4, 18, 19	A xiii
Notes on, by Goodwin.....	210	vi	1904.....	1, 3, 18, 87	A xiv
Specific gravity of.....	202	vi	1905.....	1, 4, 23	A xv
Calc spar. See Calcite.			1906.....	3, 6, 25	A xvi
Calcareous marl. See Marl.			Works for, Merritton.....	140	xii
spar. See Calcite.			Ottawa.....	296	xi
tufa.			140	xii	
Occurrences of	196	ix	carbonate. See Calcite.		
Calcedony. See Chalcedony.			chloride.		
Calcic carbide.			Lime used in making.....	5	B xiii
Composition and cost of.....	145, 147	iv	fluoride. See Fluorspar.		
<i>See also</i> Acetylene gas.			phosphate. See Apatite.		
Calciferous formation.			silicate. See Wollastonite.		
Carleton co.....	37	B xiii	sulphate. See Gypsum.		
Dundas co.....	40	B xiii	sulphite.		
Glengarry co.....	46, 47	B xiii	Sault Ste. Marie, for paper mak-		
Grenville co.....	48	B xiii	ing.....	61, 62	x
Lanark co.....	70, 72	B xiii			

	Page.	Vol.		Page.	Vol.
Calco King Mining Co.			Caledon tp.—<i>Con.</i>		
Capital and date of charter.....	9	x	Limestone in.....	95 B	xiii
Calder, George	80	vi	Cambro-Silurian.....	39 B	xiii
James	88	vii	Marl in.....	16	x
Lake Mining Co.				160 A	xiv
Capital and date of charter.....	9	viii	Sandstone quarrying in.....	99	i
tp., SUDBURY DIST.			<i>See also Credit Forks.</i>		
Timber in.....	145 A	xv	Caledonia, SENECA TP., HALDIMAND		
Caldwell, John F.			CO.		
Manager, Sultana g.m.....	7 Bull.	i	Gypsum near.....	122	R C
	179	v		38	xii
93-96, 117, 251	vi		quarried.....	252	iv
46	vii		23	x	
51	viii		Mineral spring at, analysis..	204, 205	ix
57 A	xv		Natural gas at, 1892.....	20	x
Owner, Sultana g. m.....	231	ii	1894.....	252	iv
	16-19	iii	1895.....	283	v
227	iv		notes by Walker.	281	vi
238	v		gypsum mine, ONEIDA TP.,		
6	vii		HALDIMAND CO.		
52	viii		Notes on, 1890.....	113	i
38, 39	ix		Iron works (MONTREAL).		
96	xii		Peat used at, for smelting.....	207	i
59 A	xiii		Natural Gas Co.		
Thomas B.			Capital of.....	284	v
Calabogie iron mine owned by..	115	xii	Wells of.....	20	x
Iron ore exhibited by, at World's			Springs, CALEDONIA TP., PRES-		
Fair.....	78	ii	COTT CO.		
prospecting by, Gunflint			Peat at.....	197	ii
Lake dist.....	68	ii	tests, deodorizing system at		
prospecting by, Timagami			190, 191	vi	
dist.....	20	xii	tp., PRESCOTT CO.		
	31 A	xiv	Peat in.....	197	ii
26,	88 A	xv	thickness.....	190	i
Caldwell, William C.			<i>See also Caledonia Springs.</i>		
Evidence by, before R. C., <i>re</i> :—			Trenton limestone in.....	98 B	xiii
bonuses on iron smelting.....	393	R C	Caiey, C. W.	102	vii
iron ores, Lavant tp.....	140	R C	Calico.		
tariffs.....	233	R C	Arsenic used in.....	120	xi
technical education.....	427	R C	California, U.S.		
Iron ore exhibited by, at World's			Asbestos in.....	98, 99	iii
Fair.....	78, 80,	ii	Diamonds in.....	120	ix
Owne, Wilbur mine.....	104	ix	Gold in, boring for.....	164	iii
	127	x	cost of placer mining...	258	vii
	260	xi	mode of occurrence....	71	iv
William M.			gypsum in.....	119	R C
Captain, Regina g. m.....	182	v	platinum in.....	142	vii
Manager, Cameron Island g. m..	55	vii	School of Agriculture.		
68	viii		Notes on, by Mather.....	506	R C
Jubilee g. m.....	122	vii	University.		
Work by, 1895, Empress g. m...	266	v	Notes on, by Richards.....	511	R C
& Co. See Caldwell, Thos. B.			<i>Calla palustris.</i>		
Caldwell, GRATTAN TP., RENFREW CO.			Abitibi dist.....	241 A	xiv
Iron mine near.....	82 A	xvi	<i>Callonema bellatula.</i>		
notes by Goodwin....	55	xii	Kwataboahegan river.....	186 A	xiii
<i>See also Radnor mine.</i>			" <i>lichas.</i>		
Grove well, ANDERDON TP.,			Cayuga, N. tp.....	146	xii
ESSEX CO.			Hagersville.....	145	xii
Log of boring in.....	42 B	xiii	<i>Callopora.</i>		
iron mine, LAVANT TP, LAN-			Hamilton.....	141	xii
ARK CO.			Port Colborne.....	36	xi
Map showing location of, notes			<i>Calluna vulgaris.</i>		
on.....	140	R C	Germany, peat bogs.....	213	ii
pt., L. SUPERIOR.			Caim lake, SEINE RIVER. See Non-		
Rocks and minerals at, notes by			watin lake.		
Coleman.....	149	ix	Calorific power.		
Caledon tp., PEEL CO.			Carbon.....	185	i
Brown stone quarrying in.....	110	ix	Fuels, various.....	166	vi
Calcareous tufa in.....	196	ix	Wood.....	54 B	xv

	Page.	Vol.
Calpac, St. Clair Co., Mich.		
Peat plant at.....	28 A	xiii
<i>Calla palustris.</i>		
Abitibi Lake dist.....	241 A	xiv
Mattagami valley.....	150 A	xv
Calumet and Algoma Mg. Co.		
Capital and date of charter.....	25 A	xv
and Hecla Copper mine, L. SUPERIOR.		
Concentric flow-wrinkles at.....	37	R C
Conglomerates of.....	242	ii
Daily output from.....	455	R C
Notes on, by Coleman.....	144, 145	ix
Ore of, character.....	36, 37	R C
	93	iii
Porphyry pebbles in.....	38	R C
Cobalt Mg. Co.		
Capital and date of charter.....	28 A	xvi
island, OTTAWA RIVER.		
Blueite (?) from.....	282	xii
	160 C	xiv
Cobalt ores on.....	103 A	xiii
Rocks on.....	104 B	xiii
Silver on, leaf.....	207	vi
Zinc-blende on.....	210	vi
	87	ix
Calvert, F. H.	102	viii
tp., NIP.		
Rocks in.....	206, 210,	212 A xiv
Soil and timber of.....	204,	228 A xiv
analysis.....	246 A	xiv
sandy.....	197 A	xiv
windfalls.....	199 A	xiv
Calvin, Hiram A.	178	iii
tp., NIP.		
Beryl in.....	195	ix
Mica in, mining.....	195, 196	iii
muscovite.....	205	ix
<i>See also</i> Eau Claire.		
Polycrase in.....	207	ix
Xenotime in.....	212	ix
<i>Calymene.</i>		
Cayuga, N. tp.....	146	xii
Walpole and Townsend tps.....	143, 144	xii
<i>" platys.</i>		
Kwahataboahagan river, notes		
by Parks.....	190 A	xiii
<i>Calypso borealis.</i>		
Abitibi dist.....	241 A	xiv
Calyx drill.		
Advantages of.....	233	v
Description of, mode of working.	55	x
<i>Camarotoecia tetlys.</i>		
Anderdon tp.....	125	xi
Kawataboahagan river.....	186 A	xiii
" Cambria" ss.	18	vii
Cambria (WALES).		
Cambrian system called after.....	31, 530	R C
Iron Co.		
Analysis by, of iron ores from :—		
Belmont tp.....	130	R C
	61	ii
Glamorgan and Snowdon tps.		
	131, 132	R C
Cambrian.		
Canada, thickness of.....	195	v
Distribution of.....	169	i
Nomenclature of.....	530	R C
Notes, by Bell, on rocks of....	31	R C

	Page.	Vol.
Cambrian.—Con.		
Sub-divisions of.....	2	R C
Sudbury dist., anthraxolite in..	3, 6 Bull.	ii
	159	vi
Thunder Bay silver dist., silver in	63	R C
Cambridge Gold Mg. Co.		
Capital and date of charter.....	9	ix
Cambro-Silurian.		
Sub-divisions of.....	96 A	xiv
<i>See also</i> the sub-divisions.		
Camden, CAMDEN CO., N.J.		
Nickel refinery at.....	27	vii
<i>See also</i> Wharton, Joseph & Co.		
tp., KENT CO.		
Contact, Laurentian-Silurian in..	27 B	xiii
tp., ADDINGTON CO.		
Cement works in. <i>See</i> Strathcona.		
Limestone in. <i>See</i> Newburgh.		
Cameron, A.	115	ix
	140	x
	65	xii
	48 A	xiii
Alexander		
Copper prospecting by, L. Superior.....	194	R C
Bros.		
Lime manufactured by, Delta...	72 B	xiii
" Caribou "	54, 67,	58 iii
D.	53 A	xvi
D. C.	57	ix
	79	x
lan		
Manager, Blezard mine.....	247, 255,	256 ii
Cameron mine.....	273	v
Worthington mine....	246	iv
	273	v
Notes by, on nickel-steel.....	145	ii
supply.....	147	ii
Views of, on Ontario mining law	227	ii
J. O.	48 A	xiii
John	107,	155 v
W. J.	55	vii
W. M.		
Lime-kilns of, Carleton Place...	28	xii
analysis of stone		
burnt in.....	70 B	xiii
notes on.....	72 B	xiii
<i>See also</i> Cameron Bros.		
Hon. William		
Lithographic stone quarry of,		
Marmora tp.....	138	iii
& Co. (N. Y.)		
Gold mining by, L. of the Woods	50	vi
copper mine, NEAR DESBARATS,		
ALG.		
Rocks of.....	188	x
gold mine, CAMERON ISLAND,		
L. OF THE WOODS.		
Accident in, 1899.....	31	ix
Depth of, 1899.....	35	ix
Mining class at.....	281	viii
Notes on, 1898.....	44, 45,	68 viii
Photos of.....	64,	65 ix
Preparations for re-starting.....	62 A	xiii
	47 A	xiv
gold mine, MALONE, HASTINGS		
CO.	110	R C

	Page.	Vol.		Page.	Vol.
Cameron iron mine, CHANDOS TP., PETERBORO CO.			Campbell, Sir Alexander		
Ore from, exhibited at World's Fair	82	ii	Notes by, re police force, Hast- ings dist.	55	iii
island, L. OF THE WOODS.			Alfred A.		
See also Cameron g. m.			Notes by, on Richardson gold mine.....	54, 55	iii
Gold mining on, 1897	54, 55	vii	Archibald H.	174	ii
1898.....	68, 276	viii	Sir Arthur	xi	R C
1899	60	ix	C.	17	ii
1900, idle.....	79	x	Duncan	125, 127	i
1903.....	62 A	xiii	J. B.		
Island Mg. and Dev. Co.			Evidence by, before R. C. re :—		
Capital and date of charter.....	8	vii	apatite, Monmouth tp.	173	R C
Re-organized, 1899	60	ix	hardwood, Haliburton dist...	395	R C
Work by, 1898.....	44, 68	viii	marble "	83	R C
1903.....	62 A	xiii	57 B	xiii	
lake, N. OF L. SUPERIOR, TH. B. D.			mining "	132	R C
Fault west of	311 A	xiv	Gold mining by, L. of the Woods.	58	ix
Iron ore near	336 A	xiv	J. S.		
Minor refs. to	285, 292 A	xiv	Iron mining by, Oso tp.....	276	v
Rocks on, and near	316 A	xiv	Notes by, on Calabogie iron mine	136, 233	R C
lake, TRILL TP., ALG.			President, Calabogie iron mine..	275	v
Rocks near.....	196 A	xiii	J. W.	103 A	xvi
nickel-bearing.....	23 C	xiv	James Edwin	91	iii
lake, VICTORIA CO.			John		
Trenton fossils near.....	113 B	xiii	Mechanic for Canadian Copper Co.	64, 277	xi
nickel mine, BLEZARD TP., NIP.			John		
Notes on	273	v	Mica mining by, near Waubamik	279	v
Rocks in	55 C	xiv	John.		
tp., NIP.			Rapids on York Branch river		
Amazonite in	193	ix	named after.....	221	viii
Iron in, native.....	200	ix	John S.	75, 129	vii
Perthite in	206	ix	K.	102	vii
Cammell, Charles & Co.			Mat.	97, 103 A	xvi
Armour plates of.....	365	R C	N.	102	viii
150-155		iii	140	x	
Camp bay, WHITEFISH BAY, L. OF THE WOODS.			Neil	38, 39, 112	vii
Camp on, photo.....	80, 81	vi	63, 277	viii	
Gold mining on, 1896.....	100, 101	vi	91	x	
1897.....	45, 113	vii	Norman	64	xi
1898...	60, 61, 276	viii	P. C.		
1899	50-52	ix	Evidence by, before R. C. re :—		
1905	4 A	xv	free-trade.....	231	R C
1906	60 A	xvi	iron near Echo lake.	143	R C
Rocks on	118	vi	minerals, Sudbury dist.	59	R C
Bay and Crow Lake Ry.	50	ix	Waters tp.	112	R C
Bay Gold Mg. Co.			mining laws.	310	R C
Capital and date of charter.....	25 A	xiv	Iron ore shown by, at World's Fair.....	80	ii
Producing, 1905.....	4 A	xv	T.	65	xii
Bay Mg. Co.			48 A	xiii	
Capital and date of charter	37 A	xiii	William	65, 156, 157	v
Combined gold m. owned by ...	63 A	xiii	R. & Sons.		
58 A	xv		Pottery works of, notes.....	120 B	xv
Minor ref. to.....	4 A	xiv	-Blomfield claim, MARMORA TP., HASTINGS CO.		
lake, MICHIPICOTEN DIV., ALG.			Notes on, by Chapman.....	104	xi
Rocks near	338 A	xiv	-Crawford Cobalt Silver Mg. Co.		
lake, NORTH OF OSOQUAN, R. R. D.			Capital and date of charter	28 A	xvi
Country near, character	147	xi	gold mine, NEAR MINE CENTRE.		
<i>Campanula aparinoides.</i>			See Golden Crescent g. m.		
Abitibi dist.....	241 A	xiv	island, WHISKEY LAKE, ALG.		
Mattagami valley.....	151 A	xv	Dimensions of; rocks of; copper prospecting on	64, 65 A	xiv
" <i>rotundifolia.</i>			rapid, YORK BRANCH RIVER.		
Abitibi dist.	241 A	xiv	Nepheline-syenite near	221	viii
Campbell, A. D.	102	vii			
A. H.	104	xi			

	Page.	Vol.
Campbell tp., ALG.		
Actinolite in. <i>See</i> Grimsthorpe.		
Campbellford, SEYMOUR TP., NOR-		
THUMBERLAND CO.		
Beaches at.....	235, 237	A xiii
altitude	233	A xiii
Gravel deposits near.....	231, 232	A xiii
Campbellville, NASSAGAWEGA TP.,		
HALTON CO.		
Brick-clay at.....	229	R C
Medina.....	16	V
	29	xii
works.....	103, 104	i
<i>Campeloma.</i>		
Toronto	230	A xiii
Campement D'Ours island, LAKE		
HURON.		
Native iron near.....	200	ix
Rocks near, notes by Coleman ..	159	viii
Canada.		
Apatite of, character.....	189	ii
paper by Penrose..	436-443	R C
Archæan rocks of, area	193	V
	160	vii
distribution ..	245	V
notes by Ven-		
nor.....	41-44	ii
Boundary line between, and U.S.,		
position of in L. St. Clair	108	V
Business relations with U. S.....	220	R C
Cement in, standard.....	168, 169	A xiv
Exports of, to U.S., 1881-1887...	xvii	R C
Imports of, from U.S., 1887.....	468	R C
Iron ores of, notes by Birkin-		
bine.....	343, 344	R C
synopsis of a report		
by Harrington..	52	ii
statistics of :—		
consumption, 1868-1886	397	R C
1888	369	R C
exports, 1885-1888.....	225	R C
production, 1887.....	xviii	R C
Laurentian system of, notes by		
Bell	245-249	V
Lithographic stone of, analysis..	183	ii
Map of.....	12, 13	B xiv
Mineral exports of, 1881-1887.	244-254	R C
production, 1870, 1880,		
1887	209	R C
1874-1886	214	R C
1886, 1887.....	243	R C
1887, 1888.....	xvii	R C
1888.....	525	R C
statistics, notes on col-		
lection of.....	414	R C
Mining laws and regulations of :—		
evidence before R. C.	263-277	R C
notes by commissioners...	254-276	R C
Mining schools in, notes on, 1890.		
	213-217	i
Railways in, mileage of, 1891....	110	ii
Roads in, awful.....	103	iii
Statue representing, at Pan-		
American exhibition	87	xi
and United States Oil and		
Gas Co.		
Capital and date of charter.....	28	A xvi
bird.		
Timagami Lake dist	58	R C

	Page.	Vol.
Canada Consolidated Gold Mfg. Co.		
<i>See also</i> Deloro, Dominion, Gat-		
ling and Consolidated gold		
mines.		
Deloro g. m. operated by.....	58	vi
Gold prospecting by, Marmora		
tp.	106, 107	R C
	94, 263	V
Minor ref to.....	52	X
Mispickel worked by, Marmora		
tp.	105	xi
Consolidated Mineral Co.		
Capital and date of charter.....	11	xi
Copper Co.		
Mines of	433	R C
evidence before R. C..		
	103, 104	R C
notes by Merritt....	89, 90	R C
Purchase by, of Stobie copper		
mine.....	58	R C
Corundum Co.		
Accident to employees of.....	40	A XV
Award to, Pan-American exhib-		
ition	89	xi
Concentrating plant of, photo...	84	A xvi
Mining class at claims of.....	40	A xiv
	43	A xv
Notes on, 1899	20	ix
1900	25, 130	X
1901	37, 294	xi
1902	37, 135	xii
1903	19-21, 89,	90 A xiii
1904 and photos of		
plant	74, 75	A xiv
1905	97, 98	A xv
Operating, 1905	19	A xv
Work by, Monteagle tp.	84	A xvi
Raglan tp.....	21	A xvi
Crude Oil Producers.		
Capital and date of charter.....	5	xii
First Silver Mining Co.		
Capital and date of charter.	7	vii
Iron Furnace Co.		
Award to, Pan-American ex-		
hibition.....	86, 90	xi
Bounty payments to, 1900	32	X
1901	26	xi
1902	25	xii
Formation of	25	ii
Furnace of, blown in, 1890.....	25	xi
description	102	ix
	27-30	X
plan of.....	16	ix
photos	16	ix
	16, 160	161
projected.....	6	viii
<i>See also</i> Midland.		
Limestone quarry of, analysis...	110	B xiii
producing.	28	xii
Officers of	17	ix
Radnor iron mine worked by.	20, 47	xii
	77	xiv
	95	xv
	16	A xvi
<i>See also</i> Radnor iron mine.		
Work of, early.....	25	ii
Grattan tp.	24	xi
Lands Purchase Syn.....	69	iii

	Page.	Vol.
Canada Minerals, Limited.		
Capital and date of charter.....	28 A	xvi
Nickel Co.		
Capital and date of charter.....	9	ix
Holdings of, acquired by Ontario Nickel Co.....	67 A	xvi
Paint Co.		
Arsenic employed by, amount of.....	111	xi
manufactured by.....	122	xi
pyrites mine. See Oliver pyrites mine.		
Salt Association.....	191	R C
Sand Lime Pressed Brick Co.		
Capital and date of charter.....	25 A	xv
Silver Mining Co.		
Capital and date of charter.....	7	vii
Venture Co.		
Original operator's of Deloro g.m.	58	vi
Canadian Bank of Commerce.		
Cobalt branch of, photo.....	66 B	xiv
Cement Brick Co.		
Capital and date of charter.....	24 A	xiii
Coal and Ore Dock Co....	13 A	xiv
Cobalt and Silver Mg. Co.		
Capital and date of charter.....	29 A	xvi
Cobalt Corporation.		
Capital and date of charter.....	29 A	xvi
Copper Co.		
See also the following mines :—		
Clarabelle. Krean Hill.		
Copper Cliff. Lady Macdonald.		
Creighton. McArthur.		
Evans. Stobie.		
Frood.		
Accidents to employees of :—		
1893.....	167	iii
1894.....	201-213	iv
1895.....	236-239, 240	v
1896.....	272, 273	vi
1897.....	30	vii
1899.....	24, 25	ix
1900.....	44	x
1901.....	49-52	xi
1902.....	44-46	xii
1903.....	38, 39	A xiii
1904.....	25 A	xiv
1905.....	30, 31	A xv
1906.....	33, 35	A xvi
Acknowledgments to.....	61, 64	xi
Advantages of, over rivals.....	145 C	xiv
Boring plant purchased by.....	42 A	xiii
Capital and date of charter.....	10	ix
Copper ores to be treated by....	8 A	xv
plant for, erected. 64, 65	A	xv
Copper Cliff mine acquired by..	135 C	xiv
Creighton " " " " " "	244	xii
Electricity developed by.....	10 A	xiv
Employees of, number, 1898....	7	viii
Exhibits of, at Pan-American exhibition.....	86	xi
Frood mine worked by.....	57 C	xiv
Gold and mispickel mining by, Net lake.....	173, 174	ix
Historical notes.....	xxii	R C
	284-286	xii
	136-141 C	xiv
by Ritchie..170-172 C		xiv

Canadian Copper Co.—Con.

	Page.	Vol.
Inclusion of, in International Nickel Co.....	21	xi
	17, 284	xii
Krean Hill mine worked by....	64 A	xv
Matte produced by, analysis....	154	ii
notes by Roberts-Austen.	109	viii
Mines and plant of.....	98	ix
	123	x
notes, 1897.....	25, 95-97	vii
1898.....	38	viii
1899.....	96, 97	ix
and photos, 1901.....		
	272, 273, 276-280	xi
1902..117-120, 272, 273,		
	288, 289	xii
1903.....	208, 209 A	xiii
1905.....	90, 91, 108 C	xiv
1906.....	63-66 A	xvi
by the president.....	45	vi
Ores of, as a source of platinum.	180	ii
percentage of copper and nickel in.....	90	i
richer in depth.....	153	ii
Price of nickel controlled by....	59 A	xiii
Production of, 1902 (to).....	288	xii
1903.....	6 A	xiii
1905.....	12 A	xv
increasing... 47 A		xv
1906.....	14 A	xvi
increasing... 56 A		xvi
proportion to other mines....	156 C	xiv
Quartz mined by, for converter linings.....	26 A	xvi
Refinery of, Cleveland, U.S....	131	ii
Sales by, to U.S. Navy.....	138	ii
Smelting by, methods.....	378, 379	R C
	217	ix
good.....	144 C	xiv
Tests by, on nickel-steel.....	191	iv
Work by, 1893.....	182, 183	iii
1895.....	18	v
1898.....	19	viii
1901.....	20, 21	xi
1902.....	117-120	xii
1903.....	83, 84 A	xiii
1904.....	6, 9, 69-71 A	xiv
1905.....	8, 11, 63-65 A	xv
1906.....	63-66 C	xiv
Corundum Wheel Co.		
Capital and date of charter.....	24 A	xiii
Electro-Chemical Co.		
Caustic soda made by.....	14 B	xiii
Minor ref. to.....	92	xi
Plant of, at Sault Ste. Marie....	65	x
photo.....	96, 97	xi
General Electric Co.		
Wilson's acetylene patent acquired by.....	141	iv
General Industrial and Development Co.		
Capital and date of charter.....	29 A	xvi
Gold Extraction Co.....	99	viii
	87, 88	ix
Gold Fields Co.		
See also Deloro gold mine.		
Arsenic made by, photo....	112, 113	xi
mining by, Marmora tp.	197	xi

	Page.	Vol.		Page.	Vol.
Canadian Gold Fields Co.—Con.			Canadian Pacific Railway.—Con.		
Arsenic plant of, photos....	112, 113	xi	Mica boiler covering tested by...	32	v
process of, ref. to.....	29	xi	Michipicoten div., character of		
Capital and date of charter.....	8	vii	country traversed by.....	9 Bull.	iii
	10	viii	Rocks on, in Animikie range....	160 A	xv
Deloro mine purchased by.....	22	viii	Stone producing by	28 A	xiii
Exhibit of, at Pan-American Ex-			L. of the Woods	14	iii
hibition	85, 89	xi	Sudbury nickel development due		
Govt. drill lent to.....	52, 56	x	to	134, 136 c	xiv
Mining class of, photo.....	64, 65	xi	Woodland div., notes on....	108-115	iv
Plant of, closed.....	18 A	xiii	Peat Fuel Co.		
sold.....	12 A	xvi	Experiments by, on peat	22	vii
Work by, 1902.....	14, 36	xii		200	xii
Granite Co. (OTTAWA)			Notes on, by Gibson.....	189	vi
Evidence by, before R. C.....	83, 84	R C	Rights given by, to Trent Valley		
Marble quarrying by, near Ren-			Peat Fuel Co.....	22	ix
frew	76, 82	R C	Portland Cement Co.		
	102 B	xiii	Analysis of clays and marls used		
Notes by Merritt.....	74	R C	by	183 A	xiv
Hart Corundum Wheel Co.			Capital and date of charter....	9	x
Capital and date of charter.....	25 A	xv	Exhibits of, at Buffalo.....	88	xi
Iron Co.			Formation of	136 A	xiv
Capital and date of charter.....	24 A	xiii	Lime producing.....	28	xii
Klondike Mg. Co.			Notes on, 1902.....	32, 35	xii
Capital and date of charter.....	26 A	xv	1905.....	136-139 A	xiv
Land Co.			1906.....	116 B	xv
Capital and date of charter.....	24 A	xiv	Operating, 1901.....	32	xi
Land Emigration Co.	237	R C	1902.....	31, 35	xii
Mica Co.			1903.....	17 A	xiii
Work by, 1901.....	292	xi	1905.....	17 A	xv
Works of, Ottawa, closed.....	131	xii	1906.....	20 A	xvi
Michigan Gold Mines.			Plant of, erection.....	16	x
Capital and date of charter.....	24 A	xiii	notes	18 B	xiii
Milling and Reduction Co. See			photos.....	136-139 A	xiv
Lake of the Woods Gold and			Pyrates Co.		
Silver Reduction Co.			Work by, 1906.....	80 A	xvi
Mineral Co.			Rand Drill Co.		
Capital and date of charter.....	7	vii	Work by, for Deloro gold mine..	40	viii
	10	viii	Salt Co.		
Mines Development Co.			Chief producer, 1902.....	38	xii
Capital and date of charter.....	10	ix	Producing, 1902.....	38	xii
Purchase by, of Foley gold mine.	66	ix	1903.....	22 A	xiii
	81	x	1904.....	20 A	xiv
Mining Institute.			1905.....	21 A	xv
Cobalt samples exhibited at	5 A	xv	1906.....	23 A	xvi
Niagara Power Co.....	55	x	Can.-Amer. Mg. and Development		
Northern Ore and Coal Co.			Co.		
Capital and date of charter.....	25 A	xv	Capital and date of charter.....	31 A	xvi
Northern Railway Co.			Canaries.		
Exhibit of, at Buffalo.....	86	xi	Abitibi dist.....	253 A	xiv
Opening of, anticipated results..	128	xi	Canborough Natural Gas Co.		
Rocks along, near Atikokan river.	131	xi	Capital and date of charter.....	11	x
Oil Fields, Ltd.			tp., HALDIMAND CO.		
Capital and date of charter.....	9	xii	Natural gas in.....	91 A	xiv
Oil Refining Co.			boring for, log.....	105 A	xiv
Capital and date of charter.....	11	xi	Cancrinite.		
	25 A	xv	Dungannon tp.	196	ix
Minor ref. to.....	23 A	xiii	Candles.		
Operating, 1906.....	24 A	xvi	Composition of.....	26	v
Plant erected by, at Petrolea....	41	xi	Duty on.....	232	R C
	40	xii	Canesda Mineral Water Co.		
Production, 1905.....	22 A	xv	Capital and date of charter.....	8	vii
Pacific Railway.			Canestoga river, GRAND RIVER, L.		
Advantages due to	103	iv	ERIE.		
of, to Kenora... ..	172	v	Onondaga limestone on.....	122 B	xiii
Animikie range, culverts made			Canfield, CAYUGA N. TP., HALDI-		
from local granite.....	162 A	xv	MAND CO.		
Eastern division of, description.			Brick-yard at.....	66 B	xv
	108-116	iv			

	Page.	Vol.
Canise island, LAKE SIMCOE.		
Limestone on, for burning....	89 B	xiii
Canker-worm.		
See Abitibi dist.....	129 A	xiii
Cannamore, FINCH TP., STORMONT CO.		
Limestone near	111 B	xiii
Chazy	47 B	xiii
Cannel coal.		
Analysis of standard.....	184	i
Cannibal lake, ALG. See Windegoa- quinzing lake.		
lake, R. R. D. <i>See</i> Windigoostig- wan lake.		
Cannibalism. See Anthropophagy.		
Canning industry.		
Sulphuric acid for.....	197 A	xvi
Cannington, BROCK TP., ONTARIO CO.		
Peat bog at	35 A	xiii
Canoes.		
Photos of Indians making....	48, 49	vi
Used by fur-traders, description.	200	v
Canoe lake, NEAR MINNITAKI LAKE, R. R. D.		
Rocks on and near, petrographi- cal notes	95	v
Canal lake, N. OF LARDER LAKE, NIP.		
Diabase on, petrography.....	229	xi
Jasper on, with iron	221, 230	xi
lake, NIP.		
Minor ref. to.....	112 A	xiii
Rocks near ..	121 A	xiii
Canon, The (LONG PORTAGE) ABITIBI RIVER.		
Augite-syenite at.....	193	viii
Photo of	200, 201	viii
Canonto Mica and Mineral Co.		
Capital and date of charter....	8	vii
South tp., FRONTENAC CO.		
Chalcopyrite in	196	ix
Graphite mining in	203	xi
Hematite in	199	ix
Mica in	203	ix
Canton, STARK CO., OHIO.		
Bricks of, made from Hamilton (Ont.) shales	129	iii
tests on	130	iii
Clay from, analysis.....	120	iii
Shales from, analysis.....	119	iii
apatite and mica mine, S. BURGESS TP., LEEDS CO.		
Diamond drill exploration at...	88 A	xvi
Notes on, 1893.....	195	iii
1897.....	98	vii
Capatis (INDIAN)	123, 124 A	xv
Cape Breton, N. S.		
Coal from, for Ontario.....	196	ii
Cape Colony.		
Prospecting in, with Govt. drills.	166	iii
Capelton, ASCOT TP., SHERBROOKE CO., QUE.		
Sulphuric acid made at.....	177	R C
	153 A	xvi
Tetrahedrite found at.....	208	vi
Wire-rope tramway at, for mov- ing ore	351	R C
Capillary pyrites. See Millerite.		
Capital Cobalt Mg. Co.		
Capital and date of charter.....	29 A	xvi

	Page.	Vol.
Capreol tp., L. WANAPITEI DIST., NIP.		
Farm land in.....	105 c	xiv
Gold prospecting in	256	vii
alluvial.....	152	x
Rocks in, diabase, petrography..	213 A	xiii
nickel-bearing.....	284	xi
	62 c	xiv
notes, by Cuthbert. 202-204 A	xiii	
	73, 74 c	xiv
tuff.....	95 c	xiv
Sand plains S. of.....	193 A	xiii
Terraces in.....	106 c	xiv
Capron, Henry		
Paris, Ont., founded by.....	113	i
Hiram		
Smelting by, with Van Norman.	320	R C
	13	ii
<i>Capsella bursa-pastoris.</i>		
Abitibi Lake dist.....	242 A	xiv
Carbert, Charles E.....	48	vi
Carbide of calcium. See Calcium carbide.		
Willson. See Willson, Thomas Leopold.		
Carbon.		
Calorific power of.....	185	i
Forms of	165	vi
notes by Goodwin. 218-220	vi	
Proportion of, in glass.....	118, 119	xi
globe's crust... 447	R C	
anthracitic. See Anthraxolite.		
=dioxide.		
Lime used in manufacture of....	5 B	xiii
monoxide.		
For nickel-plating.....	159	ii
Carbon, CARBON CO., WYOMING.		
Coal on	175 A	xiii
Carbonaceous shale. See Shale, car- bonaceous		
Carbonate of iron. See Siderite.		
of lead. See Cerusite.		
of silver.		
How to assay	449	R C
of zinc. See Smithsonite.		
schists.		
Windigokan Lake dist., notes by Moore	142, 143 A	xvi
Carboneau, Louis.....	49, 57	xi
Carboniferous system.		
Absence of, in Ontario	180	i
Definition of.....	530	R C
New Brunswick.....	196	ii
Carborundum.		
Composition of.....	39	xi
Price of, 1898.....	238	viii
United States, production and value.....	216	vii
Card, A. M.	29	iv
Manly W.	56, 57	xi
N. B.		
Brick-making by, Brantford....	59 B	xv
Cardiff, WALES.		
Apatite shipments to, 1884-1885.	443	R C
tp., HALIBURTON CO.		
Apatite in	194	ix
Iron ore in, analysis.....	62	ii
railway for develop- ment	61	ii

	Page.	Vol.		Page.	Vol.
Cardiff.—Con.			Carleton co.		
Mica in.....	203	ix	Brick-yards in, notes on.....	60, 61	B xv
Rocks in.....	215	viii	Limestone in, notes by Miller....	37	B xliii
Grenville series.....	56	B xliii	Palaeozoic rocks in.....	40, 41, 43	R C
nepheline-syenite.....	215	viii	.....	22	B xliii
Cardinal, EDWARDSBURG TP., GREN-			Peat bog in.....	197	ii
VILLE CO.			Place, BECKWITH TP., LANARK		
Calcliferous formation at.....	47	B xliii	co.		
<i>Cardium islandicum.</i>			Brick-yard at, notes on.....	75	B xv
James bay.....	143	A xliii	Epidote in.....	198	ix
<i>Carex magellanica.</i>			Iron ore at.....	68	R C
Ottawa, near (fossil).....	225	x	Lead mining at.....	145, 146	R C
Carey, John F.	263	xi	smelter.....	175	i
Cariboo silver mine, PAIPOONGE TP.,			Limestone at, analysis.....	70	B xliii
THE B. D.			kilns and quarries.....	70, 72	B xliii
Evidence <i>re.</i> before R. C....	199, 200	R C	Mica-trimming works at.....	105	A xv
Galena in.....	198	ix	Carling tp., PARRY SOUND DIST.		
Caribou.			Copper ore in.....	261	viii
Abitibi dist., scarce.....	193	viii	.....	168	ix
.....	189	xii	Carll, John F.		
.....	253	A xiv	Notes by, on:		
Blanche River region.....	215	xi	anticlinal theory (gas and		
Davenport, remains of, in gravel.	229	A xliii	oil).....	148-151	i
Food of.....	142	viii	exhaustion of natural gas and		
Hinterland, The.....	133	iv	oil.....	158, 159	i
Hudson Bay slope.....	178	vi	value of records of borings....	163	i
Moose River basin.....	178	A xliii	Carlo, B. See Gailucio Bartolomeo.		
L. Superior, Caribou island.....	111	v	Carlos tp., PETERBOROUGH CO.		
N. shore.....	142	viii	Old name for Methuen tp.....	15	ii
Pukaskwa harbour.....	133	viii	Carlow tp., HASTINGS CO.		
Michipicoten div.....	297	A xiv	Corandum in.....	217	vi
.....	200	A xv	.....	220, 221	viii
Pukaskwa river.....	137, 138	viii	discovery.....	61, 63	vi
Missisquoi River dist., scarce....	172	xii	.....	207	vii
Rainy Lake dist.....	97	iv	.....	206, 244	viii
Timagami Lake dist.....	58	R C	inspected by Miller.....	208	vii
"Caribou" (SKIFF).....	120, 168, 169	viii	mining, 1902..	37, 135	xii
Caribou gold mine, NEAR ROSSLAND,			1903..	89, 90	A xliii
ONT.			1904.....	75	A xiv
Notes on, 1898.....	110	vii	1905.....	99	A xv
Work on, 1902.....	234	ii	notes by Blue..	64, 65	vi
island, L. SUPERIOR.			.....	246	viii
Fishing off, notes on.....	147	viii	Miller...		
Fowl's eggs on, hatched by gulls.	132	viii	211, 219, 220.	224	vii
Gold prospecting on.....	209	v	photos ... Facing	222	vii
Historical notes.....	110-112	v	production, 1904..	18	A xiv
Minor ref. to.....	143	viii	1905..	19	A xv
lake, McCONKEY TP., P. SD. D.			prospecting.....	84	A xvi
Copper prospects near.....	170, 171	ix	tests on.....	239, 240	viii
Copper pyrites, iron and pyrrho-			<i>See also New Carlow.</i>		
tite on.....	262	viii	Gneiss in, analysis.....	227	vii
Mica on; trees on.....	171	ix	Limestone in, analysis.....	65	B xliii
lake, NEAR MANITOU LAKE. R.			Magnetite in.....	202	ix
R. D.			Pyroxene in.....	207	ix
Laurentian granite on.....	50	iv	Syenite in.....	229	vii
.....	155	vii	.....	220	viii
petrography.....	63, 89	iv	Carlsbad (EASTMAN) Springs, GLOU-		
Syenite on.....	52	v	CENTER TP., CARLETON CO.		
lake, NEAR WHISKEY LAKE.			Moss and peat at <i>See Mer Bleu.</i>		
ALG.			Carlson, Axel.....	238	v
Galena on, argentiferous.....	70	A xv	.....	66, 249	vi
Carillon canal, N. OF OTTAWA RIVER,			Nelse.....	27, 28	viii
QUE.			W. F.....	113	vii
Stone for, from Ross quarry.....	99	B xliii	Carlton West, YORK TP., YORK CO.		
Carinthia, AUSTRIA-HUNGARY.			Brick-yard at, notes on.....	107	B xv
Iron smelting in, with charcoal..	483	R C	Pottery works at.....	29	A xliii
Carl bay, SHOAL LAKE, L. OF THE			.....	118	B xv
WOODS.			Vitrified brick plant at, descrip-		
Gold mining near. <i>See Engledue,</i>			tion.....	16	v
W. I.					

	Page.	Vol.
Carlton lake, NEAR MANITOU LAKE, R. R. D. Gold mining on. <i>See</i> King Edward mine.		
Carlyle, W. S.	217	i
tp., ALG.		
Rocks in.....	68	i
Carman, Frank J.	111 A	xv
<i>See also</i> Carman and Fairbank.		
and Fairbank.		
Oil producing.....	24	vi
prospecting, Kent and Essex cos.....	19-21	vi
tp., ALG.		
Soil in, character.....	132 A	xiii
Trees in.....	124 A	xiii
Carmichael, N. R.	250	vii
Carmody Bros.		
Boring by, for gas, Bertie tp..	135-138	i
Caledonia. . .	252	iv
Carnegie, Andrew		
Notes by, on use of natural gas for glass-making	159	i
<i>See also</i> Carnegie Steel Co.		
J. H.	32	xii
Bros. & Co.		
Labour employed by, statistics..	369	R C
Phipps & Co.		
Armour plates of, tests on... 36,	137	ii
Labour employed by, statistics ..	369	R C
Steel Co.		
Armour plates of, cost.....	144	ii
Labour employed by, statistics..	369	R C
Steel of, output, 1893.....	119	ii
sent to England.....	34	x
tp., ALG.		
Soil and timber in.....	120, 141 A	xv
Carnelian	530	R C
Carnsewe —?	374	R C
"Caro" ss.	93	xii
Carolinenhorst, NEAR STETTIN, GERMANY.		
Peat at, notes on working.....	213	ii
wages for working.....	195	ii
Caron, F.	113	vii
Carp, HUNTLEY TP., CARLETON CO.		
Mica prospecting near.....	103 A	xv
river, BATCHAWANA BAY, L. SUPERIOR.		
Description of, by Willmott....	128	viii
Jasper ore on tribs. of.....	190	x
Minor ref. to.....	162	ix
Carpenter, Albert		
Evidence by, before R.C.....	86, 235	R C
Carpets.		
Peat fibre for.....	215	ii
Carr, J.	48 A	xiii
tp., Nip.....	109 A	xiii
Carrick, F. J.	102	vii
	102	viii
tp., BRUCE CO.		
Boring in, for gas, suggested	21	x
Limestone in.....	35 B	xiii
Corniferous.....	66 B	xiii
Marl in.....	37 B	xiii
Carrie Furnace Co.		
Labour employed by, statistics ..	370	R C
Carrier, S. N.	102	vii

	Page.	Vol.
Carroll, J.		
Gold mining by, Manitou lake... 123	vii	
Michipicoten div. 48 A	xiii	
Robt.	111	ix
<i>See also</i> Credit Valley Quarry Co.		
and Vick.		
Quarrying by, Credit Forks.....	98	i
<i>See also</i> Credit Valley Quarry Co.		
Bros.		
Gas wells and limekilns of, Hum-berstone.....	134	i
	44	xi
Carron iron works, SCOTLAND	358	R C
Carrots.		
Fort Matachewan.....	240 A	xiv
Goulais River valley.....	197	viii
Night-hawk lake.....	123 A	xiii
Carruthers, J. B.	178	iii
Science hall, KINGSTON.		
Photo of.....	Facing 192	vi
Carry siding, C.P.Ry., MICHIPICOTEN DIV., ALG.	3 Bull.	iii
Carscallen, A. W.		
Manager, Belmont g. m.	224	i
Notes by, on "....."	238	ii
Owner of "....."	48	iii
	40	viii
	114	x
	191	xi
Trustee, mineral collection, Mar-mora	200	vi
Carstlick, J.	138	xii
Cart lake, COLEMAN TP., NIP.		
Drainage of	81 A	xv
Minor ref. to.....	52 A	xvi
Carter, Frederick	49, 50, 57	xi
Sir Frederick	221	i
J. M.		
Brick-yard of, at St. Catharines .	77 B	xv
James		
Evidence by, before R.C. <i>re</i> :—		
Natural gas at Courtright.....	153	R C
Salt at Courtright.	191	R C
duties.....	237	R C
W. E. H.		
Acknowledgments to.....	259	xii
	16 B	xiv
Appointment of, as secretary ...	5	x
Catalogue compiled by, for Pan-American Exhibition.....	88	xi
Paper by, on peat fuel, its manu-facture and uses.....	191-234 A	xii
ref. to.....	27 A	xiii
Reports by, as Inspector of Mines.		
1900.....	90-112	x
1901.....	231-298	xi
1902.....	108-140	xii
1903.....	59-72 A	xiii
1904.....	43-76 A	xiv
Report by, on accidents at :—		
Big Master g. m.....	46	xii
Shakespeare g. m.....	26, 27 A	xiv
Work by, 1898	174	viii
1900.....	6	x
1901.....	6, 7	xi
1902.....	4	xii
1903.....	x A	xiii
1904.....	1 C	xiv

	e.	Vol.		Page.	Vol.
Carter and Kittermaster.			Cassiar Coal Development Co.		
Operating salt, Windsor.....	38	xii	Capital and date of charter.....	8	xii
=Walker process.	22 A	xiii	Cassidey, J. H.	252	xi
Description of.....	238	ii	Cassiterite. (TIN-STONE)		
Cartier, CARTIER TP., ALG.			See also Tin.		
Gravel plain near.....	106 C	xiv	Columbite associated with.....	236	vii
Limestone near, for building....	94	i	Determination of.....	204, 210, 211	vi
Magnetite near.....	87	i	Hardness and specific gravity of.	202	vi
Mining Co.			Vermilion mine, Sudbury...190,	193	ii
Capital and date of charter.....	11	xi	36	iv	
tp., ALG.			211	ix	
Terrace in, altitude.....	103 C	xiv	Wanapitei lake (near).....	162 C	xiv
Cartmell, William R.			211	ix	
Quarrying by, Thorold tp.....	96	i	Casslor, J. H.	64 A	xiii
See also Mountain quarry.			Cast iron.		
Cartwright, Major	90	viii	See also Iron.		
O. E.			For furnaces.....	377	R C
Granite prospecting by, near Cape			Castile, ALGONA TP., RENFREW CO.		
Gargantua.....	67	iii	Utica formation near.....	104 B	xiii
Sir Richard			Castings and forgings.		
Part owner, Wendigo g.m.....	44	ix	Canadian imports of, 1881-87....	250	R C
71	x		Use of charcoal in.....	401, 402	R C
President, Bedford Mg. Co.....	134	R C	Castleton, CRAMAHE TP., NORTHUM-		
Bullion No. 2 g.m.....	79	x	BERLAND CO.....	231 A	xiii
Hammond Reef G.Mg.			Castor oil bean.		
Co.....	90	viii	Moose Factory.....	107	iv
Carus-Wilson, Charles A.	217	i	river, NATION RIVER, OTTAWA		
Carver, Captain Jonathan			RIVER.		
Ref. to travels by, L. Superior...	92	R C	Limestone on.....	108, 109 B	xiii
112	v		Calciferous.....	47 B	xiii
Carveth, H. R.	236	vii	Cat (WILD).		
Car-wheels.			Mattagami river.....	131 A	xv
Manufacture of, notes on....	328, 329	R C	Cat bird.		
Cascade galena mine, GARDEN RIV-			Abitibi dist.....	126 A	xiii
ER, ALG.			Cat portage, MICHIPICOTEN RIVER,		
Belt of, same as that of Victoria m.	29	R C	ALG.		
Notes on, by Coleman.....	123	viii	Description of.....	190	vii
Skewes.....	147	R C	Catalan forge.		
Photo of.....	136, 137	viii	Character of ore suited for.....	477	R C
Cascaden tp., ALG.			Notes on.....	355, 356	R C
Rocks in, diabase.....	76	i	Smelting in.....	476	R C
nickel-bearing.....	196 A	xiii	Catalogue of Minerals (IN THE BU-		
64 C	xiv		REAU'S COLLECTION).		
south of.....	84	i	Notes on, by Goodwin.....	206-229	vi
See also Windy lake.			Catalonia prov., SPAIN.		
Swamps in.....	193 A	xiii	Mispickel in.....	101	xi
Casey, P.			Catalysis.		
Beryl found by, Lyndoch tp....	235	vii	Definition of.....	63	x
Cobalt Silver Mg. Co.			Cataraqui Mining and Develop-		
Capital and date of charter.....	28 A	xvi	ment Co.		
tp., NIP.			Capital and date of charter.....	9	x
Cobalt vein in.....	11 A	xv	Working St. Charles iron mine..	128	x
Smaltite in.....	48 A	xv	pt., NEAR KINGSTON.		
Cash, D. G.	140	x	Limestone on, fossiliferous.....	44 B	xiii
J. S.	140	x	Catterpillar, tent		
Cashel tp., HASTINGS CO.			Abitibi dist.....	128 A	xiii
Iron pyrites in, notes by Fraleck.	163 A	xvi	Garden River (near).....	123	viii
See also Tudor tp.			Cates, Henry Somerset	87	x
Casler, J. H.	54 A	xv	Catfish creek, MAGPIE RIVER, L. SU-		
Cass, J.	102	viii	PERIOR.		
Casselman, CAMBRIDGE TP., RUSSELL			Agglomerates on.....	342 A	xiv
co.			Minor ref. to.....	293 A	xiv
Brick making at, notes and photo			Notes on, by J. M. Bell.....	286 A	xiv
97,	98 B	xv	lake, CATFISH CREEK, MAGPIE		
Bricks at, price of.....	15 A	xiii	RIVER, L. SUPERIOR.		
Clay at, analyses.....	26, 27 B	xv	Agglomerate on.....	342 A	xiv
photo.....	25, 26 B	xv	Description of Catfish creek near.	286 A	xiv
Saugeen.....	19, 20 B	xv	Rocks near.....	348 A	xiv
			Cathcart pt. See McKellar pt.		

	Page.	Vol.		Page	Vol.	
Catherinet, Jules			Cayuga tp., South, HALDIMAND CO.			
Sperryllite found by, in B.C.....	162	c xiv	Oriskany sandstone in, overlaid by coral layer.....	153	xii	
Catlett, Prof. Charles			<i>Cecidomyia strobiloides</i> . See Willow gall, pine cone			
Platinum found by, in Sudbury ores	283	xii	Cedar.			
Polydymite found by, in Sudbury ores	281	xii	Abitibi dist.....	193	viii	
described by.....	168	xi		197, 223, 230	A xiv	
	159	c xiv		125	A xii	
Cattanach, A. J.			Eby tp.....	176, 178,	179 xv	
Evidence by, before R.C., re:—			For street paving.....	105	iii	
govt. aid for iron smelting....	396	R C	Fourth Meridian line.....	180	vii	
miners' rights.....	261	R C	Frederick House Lake dist..	108, 124	A xiii	
mining laws.....	315	R C	Hudson Bay slope.....	176	xi	
need of railways.....	241	R C	Lonely lake	62	v	
Silver Islet mine.....	195	R C	Mattagami valley	129.	ix	
technical education.....	428	R C		188, 189	A xiv	
Managing Director, Jackfish Lake Mg. Co.....	77	v		118, 123, 127, 140,	144	A xv
			diameter	141	A xv	
Cattle.			Michipicoten div.....	13	Bull iii	
Bedding for.....	121	iv		189,	206 vii	
See also Moss-litter.				137	viii	
Moose Factory.....	107	iv		295	A xiv	
Rainy Lake reg., owned by Indi- ans.....	97	iv		200	A xv	
Cauchon, Joseph	127	vi	Batchawana bay.....	203	viii	
Caustic soda. See Alkali works.			valley.....	200	viii	
Caverhill, J. L.			Mamainse pen	72	iii	
Gold mining by, near Wawa....	194	vii	Montreal river	133	viii	
Caves.			Missinaibi river.....	139	ix	
Michipicoten island.....	143	viii	Mississagi river	161,	172 xii	
Caviar.			Moose River basin.....	176	A xiii	
Sturgeon roe for, from L. of the Woods.....	167	v	Nipigon Lake dist.....	111	iv	
Cawes, French				212	x	
Rules by, for construction of con- crete floors.....	180	A xiv		138	A xvi	
Cawley, Clark & Co.	122	xi	Niven's base line and S. of.....	141	ix	
Cawrse, J. W.			Porcupine Lake dist.....	176	viii	
Brick-yard of, London, Ont.....	80	B xv		105, 122,	123	A xiii
Cayea lake, McCANN TP., NIP.	248	A xiv	Rainy River dist.....	65	R C	
Cayuga, N. CAYUGA TP., HALDI- MAND CO.			Dominion lake.....	174	vii	
Cement quarry near.....	55,	77 R C	Rainy Lake reg.....	95	iv	
Gypsum near	110	i	river.....	117	iv	
notes	119	R C		208	v	
mining near	241	i	Sabawe lake.....	142	v	
evidence before R.C..	121	R C	Seine river	151	v	
See also Paris gypsum mine, Excelsior gyp- sum mine and Teas- dale, T.			white			
Limestone quarries at, analysis..	55	B xiii	Abitibi region.....	126	A xiii	
Rocks between, and Hagersville.	145	x		216,	240	A xiv
lake, U.S.			Kenogami valley.....	112	iv	
Iroquois beach on.....	233	A xiii	Mattagami valley, diameter....	137	A xv	
Lake Portland Cement Co.	30	xii	Nipigon Lake dist.....	112	iv	
tp., North, HALDIMAND CO.			bird.			
Gas well in, log of.....	105	A xiv	Abitibi dist.....	253	A xiv	
Gypsum in.....	110	i	island, L. OF THE WOODS.			
See also Cayuga.			Gold claims on.....	96	xii	
Limestone in, analysis.....	146	xii	Island Gold Mg. Co.			
fossiliferous.....	118	B xiii	Capital and date of charter.....	10	viii	
quarries.....	55	B xiii	Cornucopia mine worked by....	54	vii	
Lower Helderberg formation in.	53	B xiii		67	viii	
Oriskany formation in.....	153	xii	lake, L. OF THE WOODS REG.			
Tufa in, calcareous.....	196	ix	Contact veins near	117	R C	
			Country in vicinity of, notes....	111	vii	
			Notes on, by Coleman.....	89	vi	
			narrows, PICKEREL LAKE, R.			
			R. D.			
			Laurentian gneiss on	52	v	
			Celestine.			
			Composition and uses of.....	530	R C	

	Page.	Vol.		Page.	Vol.
Celestite.			Cement, Stone and Building Co.		
Analysis of, and occurrences....	196	ix	Capital and date of charter	24 A	xiv
Description of.....	222	vi	Central Oil and Gas Co.		
Determination of.....	205	vi	Capital and date of charter	29 A	xvi
Exhibited at World's Fair.....	190	ii	Central Ontario Granite and Marble Co.		
Kingston	193	ii	Quarrying by, near Bancroft....	107 A	xv
Cement.			Ontario Mining Co.		
See also Portland cement and Natural cement.			Capital and date of charter.....	8	vii
Analysis of a sample taken at random	124 A	xiv	Ontario Railway.		
Appliances used in making...125-132	A	xiv	Cost and purchase of	59	ii
As foundation for roads.....	16	iv	Peat Co.		
Blue lake, Dumfries tp.....33,	149	xii	Centre lake, MICHIPICOTEN DIV., ALG.		
Canada, production, 1887.....	213	R C	Minor ref. to.....	200 A	xv
1888.....	525	R C	Rocks on and near ....178, 202,	205 A	xv
Classification of.....	14 B	xiii	Star Mg. Co.		
Compared with natural cement .	19 A	xvi	Capital and date of charter.....	9	xii
Definition of	14 B	xiii	Centreville, CAMDEN TP., ADDINGTON CO.		
Demand for, increasing.....	5	xi	Contact, Laurentian-Silurian at..	27 B	xiii
Effect of increased usage of, on quarrying.....	14 A	xiii	Century Silver Mg. Co.		
Grand river	16 A	xiv	Capital and date of charter.....	29 A	xvi
Industry of, 1890, paper on..108-110	55	R C	<i>Cephaleus pileatus.</i> See Woodpecker, pileated		
1893, notes by Blue.	16,	17	<i>Cephalopoda.</i>		
1899 " De Kalb.	108	ix	Kwataboahagan river	188 A	xiii
Industry of, 1901, notes on ....30-34	xii		Ceramics.		
1902, "29-36	xii		Taught at Ohio University.....	17	v
1903, "17-19	B	xiii	Cerargyrite (HORN SILVER).		
1904, paper by Gillespie.....118-183	A	xiv	Composition of.....	453	R C
1906, notes on ....115-117	B	xv	Determination of.....	208	vi
19, 20 A	xvi		Hardness of.....	201	vi
Napanee, notes by Rathbun..84,	85	R C	Joachimsthal, Bohemia.....	61 B	xiv
tests on	77	R C	Port Arthur dist.....55,	58 B	xiv
Notes on, by Cummings ....106,	107	i	Silver islet.....	196	ix
Plant for making, cost of	125 A	xiv	Specific gravity of.....	201	vi
new kind, 1900	16	x	<i>Ceratophyllum demersum.</i>		
Port Colborne, notes by Coleman on rock suitable for	34	xi	Abitibi dist.....	242 A	xiv
Statistics of, 1888	72	R C	Cerium.		
1891.....	6	i	In allanite and columbite.....	196	ix
1892.....7,	11	ii	Lyndoch tp.....	236	vii
1893.....6,	10	iii	<i>Certhia familiaris americana.</i> See Creeper, brown		
1894.....11-15	iv		Cerussite (CARBONATE OF LEAD).		
1895.....11,	29	v	Definition of.....	530	R C
1896.....12,	16	vi	Determination of.....	208	vi
1897.....15,	16	vii	Hardness of.....	202	vi
1898.....11,	13	viii	Hints on, to prospectors....	460, 461	R C
1899.....12,	13	ix	How to assay	449	R C
1900.....7, 11,	15	x	Specific gravity of.....	202	vi
1901.....12, 13,	30	xi	<i>Cer. le alcyon.</i> See Kingfisher, belted		
1891-1901.....	32	xi	Cess-pools.		
1902.....12, 13, 29,	30	xii	Moss litter for.....	143	iii
1903.....3, 16,	18 A	xiii	Ceylon.		
1904.....1, 3, 17,	18 A	xiv	Corundum in, ref. to	242	viii
1905.....1, 4,	18 A	xv	Mica from	135	x
1906.....3-6	A	xvi	Chabazite.		
Testing of, paper by Gillespie.166-170	A	xiv	Apatite districts.....	442	R C
Tests on.....	182 A	xiv	Monteagle tp.....	196	ix
Napanee.....	77	R C	Chabot, J. B. N.		
United States, production, 1888..	525	R C	Chaffey, B. E.	55	viii
Uses of, paper by Gillespie ..170-180	A	xiv	G. and Bros.		
paint.			Iron mining by, near Newboro..	34	ii
Composition of	463	R C	iron mine, S. CROSBY TP., LEEDS CO.		
			Early mining in.....	44,	45
			Ore of, analysis.....	54	ii
			tested with Wetherill separator	337	xii

	Page.	Vol.
Chaffey iron mine.—<i>Con.</i>		
Ore of, titaniferous.....	45, 49, 86	ii
	201	ix
Rocks in.....	54	ii
Chains.		
Canadian imports of, 1881-87.	246, 250	R C
Chalanches, DAUPHINÉ, FRANCE.		
Silver-Cobalt-nickel ores of :—		
paper by Rickard	63-67	B xiv
unprofitable at depth.....	6	B xiv
Chalcanthite		
Lake tp.....	136	ix
Chalcedony.		
Annaberg, Saxony.....	61	B xiv
Apatite districts.....	442	R C
Bruce mines, north of.....	72	i
Description of.....	530	R C
	224	vi
Determination of.....	205	vi
Exhibited at World's Fair.....	187	ii
Lake Superior	196	ix
Goulais bay.....	72	i
Michipicoten island	143, 144	viii
White Beaver lake.....	93	i
	196	ix
Chalcocite. See Copper glance.		
Chalcodite.		
Madoc tp.	196	ix
Chalcotrichite.		
A variety of cuprite.....	212	vi
Hardness and specific gravity of.	202	vi
Chalk.		
Elements of.....	142	iv
lake, REACH TP., ONTARIO CO.		
Marl in, analysis.....	90	B xiii
"Challenger" H. M. S.	441	R C
Challerton peat process.....	216	ii
Chalmers, Dr. Robert		
Ref. to report by, on moss-litter		
in N. B.....	199	ii
Views of, <i>re</i> ancient sea-level,		
eastern Canada	223	x
Views of, <i>re</i> stratified clays of		
Timiskaming lake.....	178	ix
Chaloner, John	49	ix
Chalons, MARNE DEPT., FRANCE.		
Technical high-school at.....	494	R C
Chalybeate springs.		
See also Water.		
James Bay basin.....	156	A xiii
Mattagami river	154	A xiii
Chalybite. See Siderite.		
Chambers, William E.		
Acknowledgments to.....	40	A xiv
Chambers-Ferland mine, COBALT,		
NIP. See Nipissing Mines Co.		
Chambly co., QUE.		
Peat-bogs in.....	197, 198	ii
Chaminiss (OR SHAMINIS) hill, PON-		
TIAC CO., QUE.		
Altitude of	204	A xvi
Description of, and nomenclature.		
	218, 219	xi
Minor ref. to.....	262	A xiv
Shape of.....	266	A xiv
Champion gold mine. See Bad		
gold mine.		
Champlain, CHAMPLAIN CO., QUE.		
Peat at	198	ii

	Page.	Vol.
Champlain lake, QUE. AND U. S.		
Rocks on	11	R C
Chandler, G. H.	217	i
Chandler iron mine, ELY, U. S.		
Notes on, by Coleman.....	152	ix
Sellwood	126	R C
Royalties paid by	13	i
Sections of	174	xi
notes on ..	175	xi
Chandos tp., PETERBORO CO.		
Chalcopyrite in.....	196	ix
Geology of, notes by Miller.....	214	viii
Gold in.....	199	ix
Iron ore from, exhibited at Chi-		
cago.....	82	ii
Channing, J. Park		
Ref. to work by, on prospecting		
with diamond drill.....	224	v
Tennessee smelter built by	183	C xiv
Channonhouse, Dr. John	47	xii
Chapelle, B.	48	A xiii
Chapin, F. B.	87, 102	vii
Howard		
Silver mining by, Coleman tp. ..	86	A xv
See also next ref.		
and Thomas.		
Owners, Savage silver mine, near		
Cobalt.....	52	A xvi
Chapleau, ALG.		
Canoe route from, to Winder-		
mere lake.....	201	viii
Forest-fires at, and northward.		
	132, 141	ix
Trap rock near	106	xii
Chaplin, William	95	xii
Chapman, Prof. E. J.		
Analysis and assays by :—		
gold ores, L. of the Woods....	64	R C
iron ores, Atikokan range.....	75	ii
Hastings dist....	130-132	R C
	54	ii
magnetites, various.	202	ix
silver ores, Silver islet.....	139	vi
Anthraxolite described by	5	Bull ii
named by .129, 160, 162		vi
	194	ix
Asbestos defined by	93	iii
Geological nomenclature by....	4	R C
Gold found by, Black bay.....	114	R C
Keweenawan		
rock.....	39	iv
Notes by, on :—		
arenaceous rock, Hungerford		
tp.....	59	B xiii
Belmont gold mine.....	48, 49	iii
Campbell-Blomfield claim....	104	xi
iron ore, Atikokan range.....	71	ii
titaniferous.....	233	vii
marble, Madoc tp.....	81	R C
trap rocks, L. Superior	15	v
Surveys by, Ontario co., ref. to..	90	B xiii
Views of, on formation of Iro-		
quois beach	225	A xiii
Wolfram found by, near Orillia.	233	vii
	212	ix
John	93	viii
	79	ix
R. M.	84	ix
W. C.	102	vii

	Page.	Vol.		Page.	Vol.
Chapman, Dr. W. J.	86	ix	Charlton, B. E.		
William	200, 201	iv	Evidence by, before R. C., re:—		
tp., P. S. D.			large holdings.....	310	R C
Limestone in.....	94 B	xiii	tariffs.....	232	R C
Charcoal.			technical education.....	427	R C
Analysis of.....	166	vi	Vermilion gold mine.....	113	R C
As fuel for iron ores.....	479-484	R C	ref. to..	143	R C
cost of, Kingston dist.....	393	R C	President, Vermilion Gold Mg. Co.	113	R C
United States.....	341	R C	H. W.		
<i>See also</i> Charcoal iron.			Analysis by, of:—		
Canada, production, 1886-87....	243	R C	analcite rock, Heron bay....	173	viii
Deseronto, works for.....	88	R C	heronite, Heron bay.....	189	ix
From mill refuse.....	391	R C	John		
Grand Piles, Que., production...	26	ii	Letter by (and others) as chair-		
Kiln plants for.....	23	xii	man of R. C.....	xi-xxiv	R C
Weight of.....	394	R C	Appointed on R. C.....	x	R C
iron.			W. A.		
<i>See also</i> Iron, Smelters, etc.			Report by, on country between		
Cost of production, evidence by			Dalton and Goulais river.196-204	viii	
Pusey.....	388	R C	Charlton, NEAR TOMSTOWN, NIP.	54 A	xvi
Michigan, U.S., production, 1884-			island, JAMES BAY.		
87.....	227	R C	H. B. C. post on.....	178 A	xiii
Paper on, by Bawden.....	468-486	R C	Spruce on.....	120	iv
Hardy.....	328-345	R C	lake, NEAR MANITOU LAKE, R.		
Plant for, Sault Ste. Marie, notes			R. D.....	75	viii
by Willmott.....	99, 100	xi	62	ix	
Prospect for making, in Ont.			Charnokite.		
(1890).....	xxii	R C	Mount Thomas, Madras.....	134 A	xv
Quality of, Ontario, superior....	215	R C	Chartiers, NEAR PITTSBURG, U.S.		
Charente river, FRANCE.			Steel industry at, statistics.....	370	R C
Peat in valley of.....	212	ii	Iron and Steel Co.		
Charlebois, F.	73	xi	Labour employed by, statistics..	370	R C
	65	xii	Chase, A. S.		
Charlebough gold mine, KOOKAGA-			Notes by, on Little American gold		
MING LAKE, NIP.			mine.....	54	iv
Notes on, 1898.....	87	vii	Charles P.		
Charlemagne of France.	95	iii	On vitrified brick.....	108, 121	iii
Charles, J. H.	102	vii	H. S.		
J. L.	102	vii	Magnetic separator of, ref. to.338, 339	xii	
Jones loc., MICHIPICOTEN IS-			Chateauguay iron mine.		
LAND	60	R C	Concentrating process at.....	327	xii
Charleston, W. VA			Chatham, KENT CO., ENGLAND.		
Streets of, brick used in paving..	106	iii	Experiments at, on artificial ce-		
lake, LEEDS CO.			ments.....	118 A	xiv
Hematite on.....	140	R C	Chatham, RALEIGH TP., KENT CO.		
Rensselaerite on, analysis.....	208	ix	Brick-yards at, notes and photo..	72 B	xv
Tourmaline on.....	211	ix	Country around, character.....	102 A	xvi
Charlesworth, L. C.			Distance from, to Hamilton.....	92 A	xvi
Report by, on Kenora Mg. Land			Erie clay near.....	12 B	xv
Agency:—			Gas supply of.....	98 A	xvi
1900.....	145, 146	x	notes by Coste....	99 A	xvi
1901.....	80, 81	xi	Oil wells near, log of.....	68 B	xiii
1902.....	49	xii	110, 111 A	xiv	
Work by, 1900.....	7	x	Peat at, company formed to work	24	ix
Charleton, A. G.			Water supply of.....	57	i
Notes by, nickel, New Caledonia			sulphurous.....	61	i
and Norway.....	178, 179	iv	Gas Co.	98 A	xvi
Charlotte lake, MICHIPICOTEN DIV.			Mineral Water Co.	88	xi
Iron formation on, notes by J. M.			Oil Co.		
Bell... ..	326 A	xiv	Capital and date of charter.....	8	xii
Rocks on and near.305, 314, 338,			tp., KENT CO.		
344, 348, 350, 351 A	xiv		Boring in, for coal.....	45 A	xiii
Charlotteville tp., NORFOLK CO.			<i>See also</i> Chatham.		
Limonite in.....	201	ix	Chatillon Commentry Co.		
	142	xi	Armour plates of.....	152, 155	iii
Smelter at, 1813....	319	R C	Chats falls, OTTAWA RIVER.		
	13	ii	Cambro-Silurian rocks near...37,	38 B	xiii
Sulphur springs in.....	210	ix			
analysis.....	204	ix			

	Page.	Vol.		Page.	Vol.
Chaudiere falls, OTTAWA RIVER.			Chemung and Portage formation.		
Power from, for Ottawa Carbide			Description of.....	42	xii
Co.....	36	A xi	Occurrences in Ont.....	47	R C
river, QUE.			Position of, in Devonian.....	2	R C
Gold on, discovery.....	115	R C	Chener, P.	44, 48	xii
Chazy, CLINTON CO., N. Y.			Cheney, F. A. <i>See</i> Cheney copper		
Chazy formation named after... 41		R C	mine.		
Chazy formation (CAMBRO-SILU- RIAN).			Cheney (OR GRANDE PORTAGE) cop- per mine, GOULD TP., ALG.		
Carleton co.....	37	B xiii	Closed, 1899.....	96	ix
Nepean pt., analysis....	15	B xiii	Granodiorite near, petrography..	170	viii
Distribution of.....	41	R C	Greenstone near, petrography... 170		xii
Dundas co.....	40	B xiii	Notes on.....	37, 148, 149	viii
Chesterville (near)....	47	B xiii		165	xii
Glengarry co.....	46, 47	B xiii	Photo of.....	136, 137	viii
Lanark co.....	70	B xiii	Chenot process.		
Ramsay tp.....	78	B xiii	For iron smelting, unsuccessful..	486	R C
Nipissing dist....	84	B xiii	Chepakonge river. <i>See</i> Shebesh-		
Position of, in Cambro-Silurian.	2	R C	kong river.		
	22	B xiii	<i>Chermes abietis.</i> <i>See</i> Gall louse.		
Prescott co.....	98	B xiii	Cherokee co., TEXAS.		
Renfrew co.....	104	B xiii	Iron ore in.....	101	ii
analysis.....	105	B xiii	Cherret, E.		
Russell co.....	107	B xiii	Brick-making by, Woodstock... 86		B xv
Stormont co....	110, 111	B xiii	Cherry, black		
Thickness of, in oil fields.....	96	A xiv	Blanche River dist.....	180	xii
Chesapeake Natural Gas and Oil Co.			Brulé lake, Th. B. d.....	205	v
Capital and date of charter.....	29	A xvi	choke		
Checkley, E. J.			Lake of the Woods.....	104	vi
Experiments by, on peat.....	200	xii	Ash rapid.....	51	v
Cheeseworth, J. W.	94	xii	Mattagami valley.....	150	A xv
	61	A xiii	Michipicoten div.....	296	A xiv
Cheesman, Sam.			Batchawana river.....	203	viii
Brick-making by, Hamilton....	106	B xv	Moose River basin.....	176	A xiii
Chelas, Charles	55, 57	xi	ground		
Chelmsford, BALFOUR TP., SUDBURY DIST.			Batchawana river.....	203	viii
Agricultural land near.....	103	iv	wild red or bird		
	105,	106	Abitibi dist.....	126, 128	A xiii
Anticline near, photo.....	98	C xiv		241	A xiv
Clay near.....	241	xii	Mattagami valley.....	150	A xv
	104	C xiv	Michipicoten div.....	296	A xiv
Diabase dikes north of.....	85	C xiv	Montreal river.....	200	viii
Pyrites deposits south of, notes			Moose River basin.....	176	A xiii
by Fraleck.....	180	A xvi	lake, NIP.		
Sandstone near.....	86	i	Description of.....	110	A xiii
	206	A xiii	Chert. <i>See</i> Hornstone.		
notes by Coleman. 10,			Chesley tp., ALG.		
13, 96-100		C xiv	Copper mining in. <i>See</i> Ranson		
petrography.....	133, 134	C xiv	mines.		
quarries.....	93	i	Iron ore in.....	188	x
	207	A xiii	Chess, Cook & Co.		
Striae near, direction..	101	C xiv	Labour employed by, statistics..	370	R C
Zinc mining near.....	32	viii	Chester, MASS.		
<i>See also</i> Clark pyrites mine.			Emery at.....	213	vii
Creek, VERMILION RIVER, SUD.			Silver Mining Co.		
Rocks near.....	62	C xiv	Capital and date of charter.....	25	A xv
sandstone, quarried.....	98	C xiv	Chesterville, WINCHESTER TP., DUN- DAS CO.		
<i>Chelona glabra.</i>			Limestone near.....	40	B xiii
Abitibi dist.....	241	A xiv	Chazy.....	47	B xiii
Mattagami valley.....	151	A xv	Rise from, to Smiths Falls.....	217	x
Chelsea hills, N. OF OTTAWA			gold claim, LARDER LAKE, NIP.		
Glaciation on.....	30	B xv	Camp of, photo.....	217	A xvi
Cheltenham, MONTANA, U. S.			Cobalt bloom in.....	218	A xvi
Paving clay from, analysis.....	120	iii	Free gold in.....	215	A xvi
Chemnitz, SAXONY	494	R C	Chew and Pratt.		
			Brick-yard of, Midland.....	100	B xv

	Page.	Vol.		Page.	Vol.
Chewett, J. H.	103	v	<i>Chionaspis.</i> See Louse, scurfy bark		
	76	vi	Chipman, William Wirt	87	x
Chewing gum.			Chipmunk.		
Made from petroleum	155	R C	Abitibi dist.	127 A	xiii
Chicago, U. S.			Chippawa, WILLOUGHBY TP., WEL-		
Bessemer ore in, price of.	394	R C	LAND CO.		
Blast furnaces of.	xx	R C	Clay near, character	117 B	xiii
	125, 127	ii	Natural gas supplied to	91 A	xiv
Brick pavements in.	108, 109	iii	Consolidated Gold Mg. Co.		
Exhibition at. See World's Fair.			Capital and date of charter.	8	xii
Oil-bearing rock at, thickness.	94 A	xiv	Work by, 1902.	96	xii
Steel industry of, notes on.	179 c	xiv	creek. See Welland creek.		
Cobalt Silver Co.			Chippewa Gold Mg. Co.		
Capital and date of charter.	* 31 A	xvi	Capital and date of charter.	8	vii
Lumber Co.			Indians.		
Prospecting by, Goulais River			Mississagi River dist.	172	xii
valley.	197	viii	river, L. SUPERIOR. See Har-		
mine. See Inez mine.			mony river.		
Wheel and Manufacturing			Chisholm, A. M.		
Co.	240	viii	Actinolite mining by, Kaladar		
Chickadee (TOM-TIT).			tp.	98	vii
Abitibi dist.	126 A	xiii	Feldspar mining by, Bedford tp.	83 A	xiv
Hudsonian			Gold mining by, Barrie tp.	117	x
Abitibi dist.	243 A	xiv	Manager, North American Stone		
Chief Buffalo.			and Asbestos Co.	137	iii
Summer residence of, photo. 176, 177		vi	Molybdenite mining by, Shef-		
island, LAKE COUCHICHING.			field tp.	11 A	xiii
Wolframite on	212	ix	G.	102	vii
island, L. TIMISKAMING.			quarry, CREDIT FORKS.		
Rocks on.	86 B	xiii	Evidence re, before R.C.	79	R C
Chiefs pt., ANABEL TP., BRUCE CO.			Notes on, by Bell.	73	R C
Limestone at	36, 37 B	xiii	Chittenden, S.	102	vii
Niagara.	50 B	xiii	Chitty, A. H.	115	ix
Chien D'Or island, L. OF THE				140	x
WOODS.				73	xi
Gold prospecting on.	49	vii	Chloanthite.		
Chihuahua state, MEXICO.			Annaberg, Saxony.	61 B	xiv
Cobalt minerals in.	71 B	xiv	Cobalt dist.	xi A	xiii
Child, W. A.	15	ix		12, 13 B	xiv
Children in mines.	22	iv	analysis.	98 A	xiii
Childs ?				19 B	xiv
Tin-salting by, Michipicoten dist.	139	viii	Hardness of.	202	vi
Childs, Charles M. & Co.	122	xi	Joachimsthal, Bohemia.	61 B	xiv
H. L. & Co.	118	ii	Notes on, by Goodwin.	214	vi
iron mine.			Specific gravity of.	202	vi
See also Mineral Range Iron Mg.			Chlor-apatites. See Apatite.		
Co.			Chlorastrolite.		
Idle.	81, 84 A	qvi	Isle Royale, Michipicoten island.	196	ix
Photo	96, 97, 224, 225 A	xiii	Chloride of lime.	5 B	xiii
Chili.			"Chloriders."		
Cobalt deposits in.	70-72 B	xiv	Definition of.	39	i
Copper production of, 1857-77-87.	371	R C	Chlorides.		
Nickel coinage in.	161	ii	Test for.	449	R C
<i>Chimaphila umbellata.</i>			Chlorination works.		
Mattagami valley.	151 A	xv	Gatling gold mine, Marmora tp.	107, 108	R C
Chin cape, BRUCE CO.				249	vi
Rocks at.	35, 36 B	xiii	Sultana gold mine.	95, 115, 277	viii
river, ABITIBI RIVER.				160, 161	v
Notes on, by Workman.	251 252 A	xiv		112, 113	vi
China.			Chlorine.		
Nickel in, ancient knowledge of.	163 c	xiv	Proportion of, in earth's crust.	447	R C
clay. See Kaolin.			Chlorite.		
Chinese.			Apatite districts.	442	R C
As labourers, New Caledonia.	149	ii	Composition of.	227	vi
Chinguacousy tp., PEEL CO.				530	R C
Brick-clay in. See Terra cotta.			Determination of.	205	vi
works in. See Brampton.			Port Arthur silver veins.	58 B	xiv
<i>Chiogenes serpyllifolia.</i>			Wanapitei, enclosing gold nuggets.	38	iv
Abitibi dist.	241 A	xiv			

	Page.	Vol.		Page.	Vol.
Chlorite schists.			Christie tp., P. S. D.		
Edgewood island, L. Huron.....	109	R C	Copper prospecting in.....	121	x
Wabigoon Lake dist.....	183	vii	"Christophle."		
Wanapitei lake, gold-bearing....	191	ii	Manufacture of, notes on.....	160	ii
Choate, Wayne			Christopherson, L. A. (H. B. C.)		
Lithographic stone quarry worked			Views of, on land east of Moose		
by, Marmora tp.....	138	iii	River basin	204	v
Chokecherry. See Cherry, choke			Christy, Thomas	31	vii
Choeira.			Chromite (IRON CHROMATE).		
Bruce mines, 1849.....	94	R C	Canada, production.....	243	R C
Chondrodite.			Determination of	204	vi
Leeds co.....	194	ii	and value.....	215	vi
Newboro.....	196	ix	Hints on, to prospectors.....	461	R C
Chonetes.			In non-titaniferous magnetites...	196	ix
Anderdon tp.....	125, 126	xi	In serpentine.....	81	i
Kwataboahagan river.....	186 A	xiii	United States, production, 1888.	525	R C
St. Marys, near	151, 152	xii	Chrysocolla.		
	96 B	xiii	Hardness of.....	202	vi
"antiopia.			Lake Superior.....	196	ix
Kwataboahagan river.....	186 A	xiii	Notes on, by Goodwin.....	213	vi
"hemispherica.			Specific gravity of.....	202	vi
St. Marys (near)	151, 152	xii	Chrysops. See Deer flies.		
	96 B	xiii	Chrysolite (OLIVINE).		
"lineata.			Definition of.....	538	R C
Stony pt., L. Huron.....	155	xii	Chrysotile.		
Chonophyllum magnificum.			See also Serpentine.		
Walpole tp.....	143	xii	Analysis of average.....	90	iii
Chordeiles popetue. See Hawk, night			Elzevir tp.....	97	iii
"virginianus. See Hawk, night			Porcupine lake, Alg.....	176	vii
Chown, George Y.	178	iii	Sold as asbestos.....	90	iii
J. E.			Church, B.	243	i
Manager for Webster & Co.....	135	x	Church Missionary Society.		
	291	xi	See also Missions.		
Canton mica mine.....	195	iii	James bay.....	134	iv
	276	v		192	viii
Grant mica mine	278	v	Churchill, C.	102	viii
Sydenham mica mine ..	192	iii	Churchill. See Fort Churchill.		
Mica mining by, S. Burgess tp...	98	vii	Chute, The, MAGPIE RIVER, L. Su-		
lake, COBALT DIST., NIP.			PERIOR.		
Huronian near.....	40 B	xiv	Description of river near.....	286 A	xiv
Minor ref. to.....	35 B	xiv	Cimber americana. See Saw-fly, Ameri-		
Choye cape, L. SUPERIOR.			can		
Iron ore near.....	314	xii	Cinnannati, U. S.		
	179 A	xv	Brick pavements in.....	108, 113	iii
Rocks at and near.....	201	x	Natural gas in.....	151	R C
	189 A	xv	anticline.		
Keweenawan formation..	204	vii	Course of.....	42	R C
photo...	190 A	xv		116	i
quartzite, banded.....	161	ix		113 A	xv
Christensen stove.			group.		
Diagram of ; notes on.....	227	xii	Equal to Hudson River and		
Christiania, NORWAY.			Utica formations.....	116	i
Nepheline rocks of, ref. to	208	xi	Cinnabar.		
Christie, D. D. See Christie, Hen-			See also Mercury.		
derson & Co.			Definition of.....	530	R C
Robert.	138	i	Determination of.....	204	vi
Thomas	32	xii	Hardness of.....	202	vi
Henderson & Co.	28	xii	Hints on, to prospectors.....	457	R C
lake, S. SHERBROOKE TP., LAN-			Notes on, by Goodwin.....	211	vi
ARK CO.			Saxony.....	89 B	xiv
Iron ore on.....	44, 46,	ii	Specific gravity of.....	202	vi
analysis.....	48	ii	Circwa dipina.		
mining	187	R C	Abitibi dist.....	241 A	xiv
See also Watson iron			Mattagami valley.....	150 A	xv
mine.			Cirkel, F.	37	vi
Limestone on	46	ii	City of Cobalt Mg. Co.		
siding, NASSAGAWEYA TP., HAL-			Capital and date of charter.....	8	vii
TON CO.			Working in Fairbank tp.....	141	vii
Analysis of limestone from.....	58 B	xiii			

	Page.	Vol.		Page.	Vol.
Citizens' Natural Gas Co.			Clarendon tp.—Con.		
Dunnville supplied by.....	106	A xiv	Iron ore in.....	45, 61	ii
Log of well of, Canborough tp....	105	A xiv	exhibited at World's		
Operating in Attercliffe field....	91	A xiv	Fair.....	79, 82	ii
Cladopora.			hematite.....	199	ix
Hamilton.....	141	xii	Iron pyrites mining in.....	164	A xvi
“ <i>aspera</i>			Mispickel in.....	105	xi
Anderdon tp.....	125	xi	<i>See also</i> Plevna.		
“ <i>cryptodens</i>			Rocks in, diorite.....	200	xi
Anderdon tp.....	125	xi	limestone.....	186	xi
Kwataboahegan river.....	181	A xiii	marble.....	80	R C
“ <i>labiosa</i>			notes by Miller... 202,	203	xi
Anderdon tp.....	125	xi	Steatite and talc in.....	210	ix
Hagersville.....	145	xii	Tremolite and vesuvianite in....	211	ix
Villanova.....	143	xii			
Woodstock.....	148	xii	Clark, A. M.		
Claims. See Mining claims.			Ferro-nickel made by.....	165	C xiv
Clapp, Mr.			C. H.	88	xi
Marble on land of, near Actinolite.	82	R C	D.		
Mispickel “ “.....	102, 200	xi	Gold mining by, Michipicoten		
Clapperton island, L. HURON.			div.....	102	vii
Utica formation on.....	42	R C	.....	103	viii
Clara tp., NIP.			.....	115	ix
Trenton formation in. <i>See</i> Deux			.....	140	x
Rivières.			.....	73	xi
Clara Bell mine. See Clarabelle			.....	65	xii
Clarabelle junction, SUDBURY DIST			D.	27, 88	B xv
Greywacké near.....	89	C xiv	Donald		
lake, SUDBURY DIST.			Gold mining by, N'armora tp. 263,	264	v
<i>See also</i> Clarabelle mines.			F. S.		
Dammed by Canadian Copper			Oil operating in Kent co.	97	A xvi
Co.	41	C xiv	H.	102	vii
Rocks on and near.....	40, 41	C xiv	Henry Clay	75	ix
nickel-bearing.....	256	xii	J. M.		
mines, NEAR COPPER CLIFF,			Anthraxolite on land of.....	3	Bull. ii
SUDBURY DIST.			.....	159	vi
Actinolite in.....	163	C xiv	Gold prospecting by, Fairbank		
Magnetite in.....	281	xii	tp.	225	i
.....	40, 162	C xiv	Govt. drill lent to.....	58	xi
Notes on, 1899.....	97	ix	.....	50	xii
1901.....	122	x	.....	42	A xiii
1901.....	278, 279	xi	S.	140	x
1902, idle.....	120	xii	W. B.	84	A xv
Photos of.....	288, 289	xii	Hon. William Mortimer		
Rocks in and near.....	257, 293	xii	Transmittal letter to, 1902.....	1	xii
norite.....	249	xii	.....	1903.....	ix A xiii
Clare co., IRELAND.	202	i	.....	1904.....	xv A xiv
Clare river, ADDINGTON CO.			.....	1905.....	vii A xv
Contact, Laurentian-Silurian, on.	27	B xiii	.....	1906.....	1 A xvi
Claremont, NEW HAMPSHIRE.			William & Co.		
Diamond drills made at.....	169	iv	Iron output of, 1893.....	119	ii
Clarence tp., RUSSELL CO.			Labour employed by, statistics..	370	R C
Peat in.....	190	i	Clark, MONTANA.		
.....	197	ii	Wire-rope tramway to, from		
Rocks in, Chazy formation.....	108	B xiii	Granite.....	352	R C
Trenton “.....	98	B xiii	pyrites mine, NEAR CHELMS-		
Clarendon, OSO TP., FRONTENAC CO.			FORD, NIP.		
Iron mining near. <i>See</i> Lizzie			Gossan from, analysis.....	186	A xvi
iron mine.			Notes on, by Fraleck.....	180	A xvi
Clarendon Mining Co.			Clarke, C. G.	102	vii
Capital and date of charter.....	9	x	Dr. C. W.	252	xi
tp., FRONTENAC CO.			F.	138	xii
Actinolite in.....	192	ix	—, (H.B.C.).....	172	ii
Field prospecting in.....	213, 218	v	Prof. F. W.		
Gold in.....	199	ix	Analysis by, of iron ore, Helen		
mining. <i>See</i> Boerth g.m.			mine.....	170	xi
			Platinum found by, Sudbury ores.	283	xii
			Polydymite “.....	168	ii
			.....	281	xii

	Page.	Vol.
Clarke, Gordon	26, 27	viii
Prof. John M.	3, 182, 190	A xiii
Thomas E. See Thomas E. Clarke Co.		
tp., DURHAM CO.		
Beach in. See Port Granby.		
Limestone boulders in	40	B xiii
Silurian in. See Newcastle.		
Clark's Standard Development Co.		
Capital and date of charter.....	29	A xvi
Clarksburg, COLLINGWOOD TP., GREY CO.		
Terrace near, altitude.....	177	ix
<i>Clathrodictyon laxum.</i>		
Kawataboahagan river.....	183	A xiii
Lake Superior, north shore.....	156	viii
" <i>problematicum.</i>		
Kwataboahagan river.....	181	A xiii
photo.....	192, 193	A xiii
Claude, -?	29	vi
Claudet, Joseph	22	xi
Clausthal, GERMANY.		
Mining school at	513	R C
Clawson, George	137	iii
Clay.		
See also Agricultural land, Brick-clay, etc.		
Alumina in.....	528	R C
Analyses of, for cement.....	124, 183	A xiv
As evidence of ancient sea-level ..	223	x
Classification of.....	5	B xv
Composition of.....	123	A xiv
Crushing tests on.....	37, 38	B xv
Education of workers in.....	17	v
For paving-bricks, notes by Gibson and Orton.....	114-118	iii
Haileybury (near), analyses, notes and photo.....	32, 33	B xiv
Industry of, rep. by Baker, 1906.	56-120	B xv
Localities supplying cement works... ..	133-162	A xiv
Manufacture of products of.....	41-56	B xv
Marlbank, for cement	109	ix
Medway, The, England.....	118	A xiv
Notes on.....	123	A xiv
by Gibson.....	124-132	iii
Plasticity of, notes by Ries.....	34	B xv
Physical properties of.....	122, 123	iii
.....	34-40	B xv
Rainy river	100	B xiii
Report on, by Baker, 1906.....	1-40	B xv
Shrinkage in, photo showing....	119	B xv
Thurlow tp., analysis.....	34	xii
belt, The great		
Location and area of.....	32, 33	B xiv
boulder		
Abitibi river, lignite in.....	188	viii
photo.....	200, 201	viii
Definition of.....	529, 544	R C
Description of, by Geikie	105	i
Erosion of, in L. Superior	156	viii
Helen iron mine	185	xi
James bay, south of.....	69	R C
Lac du Bonnet, Man., analysis..	92	B xv
Milton, photo	7, 9	B xv
Moose river	191, 194	viii
Notes on, by Baker.....	10	B xv
Bell.....	49	R C

Clay, boulder—Con.

Ottawa, notes by Ami.....	30, 31	B xv
Thedford, photo.....	11	B xv
York tp., notes on hardness	105	i
briquettes.		
Tensile strength of, tests by Baker.	35-38	B xv

China See Kaolin.**Erie** See Erie clay.**ironstone.**

Description.....	530	R C
Mattagami river	47	R C
Lacustrine	52	ii
Classification of	6	B xv
Notes on, by M. B. Baker.....	27-29	B xv

Leda See Leda clay.**Red-top** See Red-top clay.**Saugeen** See Saugeen clay.**slates.**

Huronian areas.....	72, 73	i
falls, ABITIBI RIVER.		
Notes on, by Parks.....	184	viii
Claypool, George H.	71	ix
Clayton, Prof.		

Hints by, to prospectors 463, 464 R C

Son & Howlett.

Peat-drying process of.....	195	i
Clayton, JEFFERSON CO., N. Y.		
Morainic hills west of.....	242	A xiii
Stratified clays near	243	A xiii

Clear lake, CAPREOL TP., NIP.

Gossan on.....	74	C xiv
Nickel near, prospecting for.....	203	A xiii
Shape of, conforms to strike of rocks.....	200	A xiii
.....	73	C xiv

lake, DUMMER TP., PETERBORO' CO.

Escarpments on.....	97	B xiii
Limestone on, analysis	93	B xiii

lake, HUTTON AND WISNER TFS., NIP.

Huronian sediments near.....	127	C xiv
Iron ore near.....	220	A xiii

compared with ores N.

of Batchawana bay.. 190 x

mining 177, 178 | x |

notes by Coleman. 185, 186 x

Norite near, petrographical notes.	295	xii
Quartzite south of	205	x

lake, WINDIGOKAN LAKE, TH. B. D.

Arkose rocks west of	146	A xvi
Minor ref. to.....	138	A xvi

Sand plain near	148	A xvi
lake, NORTHWEST OF SUDBURY..	149	vii

lake, SEBASTOPOL TP., REN-FREW CO.

Apatite veins on.....	439	R C
.....	194	ix

with hornblende.. 441 R C

Calcite on	195	ix
Cambr-Silurian on	104	B xiii

Corundum near.....	224	vii
Keewatin rocks on	44	B xiv

Minor refs. to.....	220	vii
---------------------	-----	-----

Nepheline boulders near.....	224	vii
------------------------------	-----	-----

Pyroxene on island in.....	207	ix
----------------------------	-----	----

Titanite	211	ix
----------------	-----	----

	Page.	Vol.
Clear lake, TIMISKAMING REG., NIP.		
Keewatin rocks near.....	44 B	xiv
river, L. OF THE WOODS, R.R. D.		
Argyll gold mine on	65	R C
Clearville, ORFORD TP., KENT CO.		
Gas well at, log of.....	109 A	xiv
Clearwater bay, L. OF THE WOODS, R. R. D.		
Gold mining on.....	118	R C
See also Three Friends mine.		
Three Ladies mine.		
creek, CLEARWATER LAKE, SEINE RIVER DIST.		
Water of; rocks of.....	77	vi
Waterpower on.....	90	viii
	78	ix
Gold Mg. Co.....	67	vii
	10, 91	viii
See also Big Six mine.		
lake, BEAVER LAKE, MISSISSAGI RIVER, ALG.		
Country near, notes by Graton..	161	xii
lake, IRON CREEK, MICHIPICOTEN DIV., ALG.		
Minor refs. to.....	291, 293 A	xiv
Notes on, by J. M. Bell.....	287, 288 A	xiv
Rocks near.....	313, 321 A	xiv
lake, NEAR FREDERICK HOUSE LAKE, NIP.....	177	viii
lake, R.R.D. See Teggau lake.		
lake, SEINE RIVER DIST., R.R.D.		
Dam on	104	x
Gold mining near.....	67	vii
	81	ix
See also Big Six g. m. and Hammond Reef g. m.		
Notes on, by Coleman	131	vii
Cleary, Thomas	54, 57	xi
<i>Clematis verticillaris.</i>		
Mattagami valley	150 A	xv
Clemens, Thomas		
Notes by. on Bonanza gold mine.	233	iv
Clement lake, MATTAGAMI VALLEY, ALG.		
Discovery of; dimensions of; rocks on.....	124 A	xv
Granite near, pegmatitic.....	134 A	xv
Soil east of, character.....	152 A	xv
Timber on.....	144 A	xv
Clements, J. Morgan	195	xi
	301 A	xiv
Clemow, Francis Cockburn..	60	ix
T.....	76	xii
"Cleopatra."	203	v
Clergue, B. J.	143	ix
	65	xii
C.		
Iron mining by, Michipicoten div.....	103	xii
E. V.		
Acknowledgments to.....	143	ix
	62, 67	xi
Mining by, Michipicoten div.		
licence	103	viii
	66	xii
manager Helen m.....	138	x
owner (part) "	113	ix
Statement by, re extent of Michipicoten range.....	195	x

	Page.	Vol.
Clergue, E. V.—Con.		
Work by, for Lake Superior Power Co.....	92	xi
F. H.		
Acknowledgments to.....	143, 155	ix
	68	x
	67	xi
Director, Algoma Steel Co.	98	xi
	273	xii
Iron mining by, Michipicoten div..	254, 255, 257	viii
licence.....	103	viii
	115	ix
Manager, Consolidated Lake Superior Co.....	92	xi
Owner (part), Helen iron mine..	126	x
power plant at Sault Ste. Marie.....	61	x
	91	xi
Clergue family, The		
Acknowledgments to.....	181	x
	128	xi
Failure of mines of, ref. to.....	11 A	xiii
Iron prospecting by:—		
Nipigon Lake dist.....	311	xii
Rainy River dist.....	129	xi
Magnetic surveying for, Sudbury dist.....	289	xii
Mining by, Michipicoten div.:—		
failure of claims, ref. to .	xi A	xiii
licence.....	115	ix
	140	x
	73	xi
Nickel mine owned by.....	154	ix
Cleveite.		
Norway	217	vi
Cleveland, OHIO.		
See also Standard Tool Co.		
Brick pavements in	108	iii
Coal in, cost of (1890).....	232	R C
Iron in, blast furnaces for.....	xx	R C
cost of production..	337, 392	R C
Nickel refinery at.....	131	ii
Road metal for, from Bruce Mines.		
	13, 14	v
	125, 169	viii
Sulphuric acid works at.....	184 A	xvi
Cleveland, YORKSHIRE, ENG.		
Iron ores of, character	483	R C
Cobalt Silver Mines.		
Capital and date of charter.....	29 A	xvi
iron mine, ISHPeming, MICH.		
Drilling at, cost of.....	232	v
Michipicoten Mg. Co.		
Capital and date of charter.....	25 A	xv
Mining Co.		
Capital and date of charter.....	7	vii
Pearce gold mine worked by....	76 A	xiv
Rolling Mills Co.		
Flange steel made by, notes on ..	190	iv
Stobie iron mine worked by.....	249	iv
Tests by, on nickel-steel.....	145	ii
Cliff island, LAKE OF THE WOODS, R.R.D.	119	vii
Climate.		
Abitibi dist.....	188	xii
	116 A	xiii
	207, 236-239, 253 A	xiv
Hinterland, The. notes on....	106, 107	iv

	Page.	Vol.		Page.	Vol.
Climate.—Con.			<i>Clintonia borealis.</i>		
Lac Seul.....	113	vi	Abitibi dist.....	241 A	xiv
Lake of the Woods region.....	52	vi	Mattagami valley.....	150 A	xv
Lake Ontario, in Iroquois times..	237 A	xiii	"Clipper" ss.	61	xi
Lake Superior, north shore.....	85	v	<i>Clisiophyllum oneidaense.</i>		
	112	vi	Port Colborne, near.....	35	xi
	147	viii	Close Brick Co.		
Mattagami valley.....	127, 147 A	xv	Brick-works of, Stratford, notes		
Michipicoten div.....	139	viii	and photos.....	92, 93 B	xv
	297 A	xiv	Clothier, A.		
Moose River basin.....	174, 175 A	xiii	Brick-yard of, Kemptville, notes.	65 B	xv
Night-hawk lak.....	184	vi	Cloud bay, L. SUPERIOR.		
Rainy Lake dist.....	72	iv	Copper mine on, notes by Cole-		
Timagimi Lake region.....	58	R C	man.....	148, 149	ix
Climax gold mine, BIG-STONE BAY,			Country to west of, notes.....	146	ix
L. OF THE WOODS.			Rocks on, petrography.....	179	ix
Notes on, 1892.....	233	ii	Cloud creek, L. SUPERIOR.		
1898.....	55	viii	Beaches near.....	175	ix
Gold Mine Co.			Farm lands along.....	146	ix
Capital and date of charter....	8, 55	viii	lake, CROOKS TP., TH.B.D.		
silver mine. See Keystone			Copper locations on, notes by		
silver mine.			Coleman.....	146	ix
Cline, James A.	32	xii	Cloudburst.		
	17 B	xiii	Sudbury, damage caused by.....	273	vi
Clinochlore.			Clouded Sulphur (BUTTERFLY).		
Bagot tp., analysis.....	196	ix	Abitibi dist.....	129 A	xiii
Clinton, GODERICH TP., HURON CO.			Clover.		
Onondaga formation at.....	45	R C	Mamainse harbour.....	129	viii
Salt at, boring for.....	185	R C	Pigeon River dist.....	147	ix
evidence before R. C..	189	R C	Rainy Lake dist.....	165	v
works.....	22 A	xiii	Wanapitei Lake dist.....	137	vii
	20 A	xiv	red		
	23 A	xvi	Michipicoten div.....	13 Bull.	iii
Sulphur at.....	194	ii		206	vii
Clinton, CLINTON CO., IOWA.			Leaf Mg. Co.		
Brick pavements of.....	113	iii	Capital and date of charter.....	5	xii
Paving clay from, analysis....	120	iii	Cloyne, ANGLESEA TP., ADDINGTON		
co., N.Y.			co.		
Clinton formation named after..	43	R C	Rocks near, notes by Miller..	200-202	xi
formation.			Clute, R. C.		
Bruce co.....	35, 36 B	xiii	Evidence by, before R.C....	133, 233	R C
Description of.....	24 B	xiii	and Brown.	78, 79	ii
Distribution and character.....	43	R C	Clydach, WALEB.		
Dufferin co.....	39 B	xiii	Nickel refinery at.....	287	xii
Essex co., Kingsville.....	118	i		11 A	xv
Gas borings in, various.....	129-138	i	Sudbury ore sent to.....	143 C	xiv
Grey co.....	4- B	xiii		15 A	xvi
Haldimand co., Caledonia.....	252	iv	Clyde avenue, HAMILTON.		
Halton co.....	57, 58 B	xiii	Boring at, for gas and oil..	112 A	xv
Lincoln co.....	73 B	xiii	Clymo, C.		
Manitoulin island.....	78 B	xiii	Evidence by, before R.C....	141, 146	R C
Nipissing dist.....	84 B	xiii	Clytie bay, SHOAL LAKE, L. OF THE		
Timiskaming lake.....	83 B	xiii	Woods.		
Oil in.....	23 A	xvi	Gold mining on, 1902.....	94	xii
Ohio, gas in.....	98 A	xiv	1903.....	61, 62 A	xii
Peel co.....	95 B	xiii	See also Gold Reefs No. 2 Mine.		
Position of, in Silurian.....	2	R C	Minor ref. to.....	105	vi
St. Joseph island.....	179 B	xiii	<i>Cnicus arvensi.</i>		
Simcoe co.....	109 B	xiii	Abitibi dist.....	242 A	xiv
Thickness of, in oil fields.....	96 A	xiv	" mulicus.		
Welland co., gas in.....	98 A	xiii	Mattagami valley.....	151 A	xv
Wellington co.....	120 B	xiv	Coal.		
Wentworth co.....	123 B	xiii	See also Lignite.		
Steel Mill, PITTSBURG.			Albany river (?), bituminous....	125	iv
Labour employed by, statistics..	370	R C	Analyses of.....	184	i
Output of, 1893.....	119	ii		194	xii
tp., LINCOLN CO.			bituminous.....	166	vi
Lead in, attempt to mine.....	73 B	xiii	various.....	175 A	xiii
Limestone in.....	73, 74 B	xiii	Balfour tp. See Anthraxolite.		

	Page.	Vol.
Coal.—Con.		
British Columbia:—		
competing with Nova Scotia...	196	ii
ownership of land carrying....	43	i
Calorific power of	480	R C
	207	ii
	166	vi
Canada, exports, 1881-1887..	243, 244	R C
imports from U.S., 1887.	468	R C
production, 1870, 1880..	209	R C
1886.....	243	R C
1887, 209, 213, 243		R C
1888.....	525	R C
Compared with peat.....	184	i
	193	xi
Composition of.....	164	vi
Definition of.....	530	R C
Dufferin co., boring for.....	43, 45 A	xiii
Great Britain:—		
accidents in mining.....	199	iv
royalties on.....	15-38	i
useless search for, prevented		
by Geological Survey.....	409	R C
Hudson Bay slope.....	57	R C
notes by Gibson.....	xii A	xiii
<i>See also below, Moose river</i>		
<i>and tribs.</i>		
Labrador, Long island (?anthrax-		
olite).....	126	iv
Labuan.....	43	i
Lake of the Woods.....	52	R C
Located by prospectors in Silu-		
rian.....	203	ii
Missinaibi (near), wrongfully re-		
ported.....	136, 146	vii
Moose river and tribs. (lig.)..	178, 181	i
	203	ii
	201	ix
Abitibi valley.....	70	R C
	203	ii
	188, 193	viii
	138, 159 A	xiii
photos.....	200, 201	viii
Mattagami river.....	70	R C
Missinaibi river.....	52, 70	R C
	188, 194	viii
	136 A	xiii
notes by Gibson..	124, 125	iv
Soweska river, map..	163 A	xiii
photos..	160, 161 A	xiii
section.....	167 A	xiii
Wabiskagami river..	143 A	xiii
report by J. M. Bell....	161-174 A	xiii
New Brunswick, thickness of		
seams	196	ii
New South Wales, royalty on...	24	i
Notes by Goodwin, on bitumin-		
ous.....	219	vi
Nova Scotia.....	196	ii
Pictou field, output..	398	R C
Ontario, absence of.....	180	i
distribution in northern.	125	iv
imports, 1863-9.....	140	iv
1893-4	140	iv
1890-91.....	281	i
1900.....	192	xii
Rainy lake....	64	R C
Rainy river.....	52	R C
Tasmania, royalty on.....	45	i

Coal.—Con.			
Tourmaline mistaken for.....	172	ix	
United States:—			
Cleveland, cost of	232	R C	
exports to Canada, 1887.....	468	R C	
Ohio, calorific power	207	ii	
Pennsylvania, anthracite....	233	xii	
Reynoldsville	21	x	
calorific power..	207	ii	
production, 1887.....	213	R C	
1888.....	525	R C	
royalty on.....	40, 41		
Victoria, Australia.....	233	v	
Wallaceburg, near, boring for.	44, 45 A	xiii	
brook, MISSINAIBI RIVER, ALG.			
Coal near	124	iv	
exploring for.....	135, 161 A	xiii	
Description of main river near...	194	viii	
Coal Banks, ALTA. See Lethbridge.			
Coalbrookdale, ENGLAND.			
Iron smelting at.....	357	R C	
Coast range, B. C.			
Eruptive contacts in.....	160	vii	
Coate, P. S.....	99 A	xvi	
Coatsworth, Joshua			
Copper prospecting by, Mamainse			
pt.....	130	ii	
Section by, of rocks from Sand			
bay, eastward.....	79	iii	
Coatsworth, ROMNEY TP., KENT CO.			
	95, 100 A	xvi	
Cobalt.			
Arsenic from ores of.....	23 A	xv	
As an alloy of nickel.....	159	ii	
Chili	71, 72 B	xiv	
Cobalt (Ont.) dist.....	8, 9 A	xiv	
report by Miller..	96-103 A	xiii	
<i>See also</i> Appendix to this Index.			
Foley tp.....	93	vii	
For electric batteries.....	11 A	xv	
France.....	63-67 B	xiv	
Germany and Austria.....	61-63 B	xiv	
Schaud	146 C	xiv	
Saxony, history of in-			
dustry	74-90 B	xiv	
Hints on, to prospectors...	458	R C	
L'Assomption river, Que.....	443	R C	
Markets for.....	103 A	xiii	
Metallurgy of.....	73 B	xiv	
Mexico	71 B	xiv	
Montreal River div., Anvil lake.			
	45, 56 A	xvi	
	James tp..	45 A	xvi
Name of, meaning.....	10 B	xiv	
New Caledonia.....	149	ii	
	9 A	xiv	
	68-70 B	xiv	
New South Wales.....	70 B	xiv	
Norway.....	67 B	xiv	
Occurrences	103 A	xiii	
to 1898	196	ix	
Ores of, notes by Goodwin.....	214	vi	
Rabbit lake.....	29 B	xiv	
South Africa.....	70 B	xiv	
South Australia.....	70 B	xiv	
Statistics, 1892.....	11	ii	
1893.....	8, 10	iii	
1894.....	11, 20-22	iv	
1895.....	19	v	

	Page.	Vol.
Cobalt. — <i>Con.</i>		
Statistics, 1904.....	8, 9 A	xiv
1905.....	9 A	xv
1906.....	3, 5, 6, 10 A	xvi
world's production, 1896-1900.....	70 B	xiv
See also Cobalt dist. and Sudbury dist.		
Sudbury ores.....	90	i
Drury tp.....	166	ii
percentage of.....	151 c	xiv
small.....	193	ii
source of.....	283	xii
statistics, 1892-94.....	288	xii
1892-1904.....	154 c	xiv
Tudor tp., with bismuthinite....	203	xi
United States.....	71 B	xiv
Value of, 1905.....	15 B	xiv
1906.....	11 A	xvi
to silver miners at Co- balt.....	2, 11 A	xv
Wallace mine.....	7 A	xvi
Wendigo lake.....	218 A	xvi
arsenate. See Erythrite.		
arsenide. See Smaltite.		
bloom. See Erythrite.		
glance. See Cobaltite.		
glass.		
Composition of.....	73 B	xiv
oxide.		
United States, production, 1888..	525	R C
Value of.....	103 A	xiii
Cobalt, COLEMAN TP., NIP.		
See also Cobalt dist. and Coleman tp.		
Boom of.....	48 A	xv
notes on.....	14 A	xvi
Boring at, with Govt. drill.....	28 A	xv
Cobalt ores of, not paid for.....	8 A	xv
Dividends paid by silver mines of, 12, 13 A		xvi
Freight rate from, to N. Y.....	5 A	xiv
Mining class at.....	44 A	xv
Recorder's office at.....	52 A	xvi
36 A		xvi
Naming of.....	40 A	xiv
10 B		xiv
Ores of, origin.....	5, 6 B	xiv
purchasers.....	11, 12 A	xvi
Photos of, Bank of Commerce... Imperial Bank.....	66 B	xiv
station and hotel....	67 B	xiv
12, 13 B		xiv
station and pharmacy.	64 B	xiv
Rocks at and near, diabase.....	219 A	xvi
See also Cobalt dist.		
Silver at, discovery.....	2 A	xiii
7 A		xvi
report by Miller.....	Pt. B	xvi
dist., NIP.		
Arsenic production, 1905.....	23 A	xv
1906.....	25 A	xvi
Notes by Gibson, 1904.....	4, 5 A	xiv
1905.....	5-10 A	xv
Ores of, compared to ores of Port Arthur dist.....	61 A	xvi
sulphur in.....	22 A	xvi
Prospecting in, difficulties of....	9 A	xvi
Report on, by Miller.....	Pt. B	xvi
Rocks of, diabase.....	213 A	xvi
Keewatin, character... 207 A		xvi

	Page.	Vol.
Cobalt, COLEMAN TP.—<i>Con.</i>		
Silver production, 1904.....	15 B	xiv
5 A		xiv
1905.....	15 B	xiv
8 A		xv
1906.....	8-10, 15 A	xvi
1907. See Ap- pendix to this Index.		
Smelter for ores of, at Copper Cliff:—		
description.....	65, 66 A	xvi
notes.....	64, 65 A	xv
statistics.....	11, 12 A	xvi
Veins of, depth.....	6 B	xiv
Wages at, price, 1906.....	189 A	xvi
-American Development Co.		
Capital and date of charter.....	28 A	xvi
and Hudson Bay Develop- ment Co.		
Capital and date of charter.....	28 A	xvi
and Larder Lake Gold Mg. Co.		
Capital and date of charter.....	29 A	xvi
and New Ontario, Prospec- tors, Developers and In- vestors, Ltd.		
Capital and date of charter.....	28 A	xvi
and Silver Mg. Co.		
Owners, McKinley-Darragh mine.	5 A	xiv
7 A		xv
Annex Silver Mines.		
Capital and date of charter.....	28 A	xvi
Bullion Mines.		
Capital and date of charter.....	28 A	xvi
Canadian Mining and Mill- ing Co.		
Capital and date of charter.....	25 A	xv
Central Silver Mg. Co.		
Capital and date of charter.....	29 A	xvi
Chartered Co.		
Capital and date of charter.....	29 A	xvi
Chief Silver Mg. Co.		
Capital and date of charter.....	28 A	xvi
Consolidated Mines.		
Capital and date of charter.....	28 A	xvi
Contract Silver Mines Co.		
Capital and date of charter.....	29 A	xvi
Development Co.		
Exhibits of, at Buffalo.....	25 A	xv
Diamond Drilling and Devel- opment Co.		
Capital and date of charter.....	28 A	xvi
hill mine, COBALT LAKE, NIP.		
Bismuth from.....	22 B	xiv
Notes and photo.....	19-21 B	xiv
Ore from, analysis.....	20, 21 B	xiv
Rocks at, strike of.....	36 B	xiv
Silver from, specimens for Louisi- ana Exhibition.....	16 B	xiv
Smaltite from, diagram of crystals. (or Long) lake, COLEMAN TP., NIP.	21 B	xiv
Auriferous sand on.....	9 A	xv
Crushing plant on.....	80 A	xv
Cobalt-arsenic ore from, analysis.	22 B	xiv
Forest fire on, photo.....	72 B	xiv

	Page.	Vol.		Page.	Vol.
Cobalt (OR Long) lake.—(Con.			Cobb Gold Mining Co.		
Rocks on and near.....	98, 100	A xiii	Capital and date of charter.....	9	viii
breccia.....	7	A xv	Cobden, Ross tp., RENFREW CO.		
dip.....	36	B xiv	Marl near.....	122	A xiv
greywacké.....	20	B xiv	Trenton formation at.....	104	B xiii
Keewatin.....	44	B xiv	Mining Co.		
Silver on.....	96-100	A xiii	Work by, Cobden tp.....	41	A xvi
mining. <i>See</i> La Rose silver			tp., ALG.		
mine.			Copper mining in.....	41, 70	A xvi
veins.....	26, 27	B xiv	<i>See also</i> Blind River.		
Lake Mg. Co.			Coboconk, BEXLEY TP., VICTORIA		
Capital and date of charter.....	28	A xvi	CO.		
Merchants' Mg. Co.			Analysis of limestone from.....	113, 114	B xiii
Exhibits of, at Buffalo.....	25	A xv	Cobourg, HAMILTON TP., NORTHUM-		
Merger, Ltd.			BERLAND CO.		
Capital and date of charter.....	28	A xvi	Beach at.....	239	A xiii
Mines Syn.			altitude.....	222	x
Capital and date of charter.....	28	A xvi	Boulders near.....	244	viii
Monarch Mg. Co.			Brick-yards at, notes on.....	85	B xv
Capital and date of charter.....	28	A xvi	Limestone at, fossiliferous.....	40, 89	B xiii
Native Silver Mg Co.			Nepheline - syenite, containing		
Capital and date of charter.....	28	A xvi	corundum.....	244	viii
North-Ontario Mg. Co.			notes by Miller..	252	viii
Capital and date of charter.....	28	A xvi	and Peterborough Ry. Co..	21	ii
Nugget Silver, Ltd.			Cochrane, A. S.		
Capital and date of charter.....	28	A xvi	Huronian found by, Sask. and		
Ore Sampling Co.			Alta.....	247	v
Capital and date of charter.....	29	A xvi	Reference to surveys by, Atha-		
Ores, Ltd.			baska lake.....	8	R C
Capital and date of charter.....	28	A xvi	Hon. Frank		
Portage Mines.			Gold mining by, Scadding tp....	76	xii
Capital and date of charter.....	29	A xvi	Part owner, Blue Lake nickel		
Smelting and Refining Co.			mine.....	285	xi
Capital and date of charter.....	29	A xvi	Transmittal letters to and from.		
Smiley Mining Co.				vii, viii	A xv
Capital and date of charter.....	28	A xvi		1, 2	A xv
Silver and Copper Mg. Co.			Neal	239	i
Capital and date of charter.....	29	A xvi		250	ii
Silver Prince.			R. B.		
Capital and date of charter.....	28	A xvi	Gold mining by, Michipicoten div.	115	ix
Silver Queen, Ltd.				140	x
Capital and date of charter.....	28	A xvi		73	xi
Dividends in 1907.....	13	A xvi		65	xii
Purchase by, of Silver Queen			Cochrane and Williams.		
mine.....	12	A xvi	Oil refinery established by, 1872.	27	v
Silver Queen silver mine.			Cockburn island, GEORGIAN BAY,		
<i>See</i> Silver Queen silver mine.			L. HURON.		
Townsite Mg. Co.			Limestones of, dolomite, analysis.	13	B xiii
Capital and date of charter.....	28	A xvi	for smelting.....	2, 13	B xiii
Union Mines, Ltd.			sulphite pulp.	76	B xiii
Capital and date of charter.....	28	A xvi	notes on.....	79	B xiii
Cobaltiferous wad. <i>See</i> Asbolite.			Cock's-comb pyrites. <i>See</i> Marcasite.		
Cobaltite (COBALT GLANCE).			Cockshutt, W. F. <i>See</i> Cockshutt		
Bucke tp.....	31	B xiv	plough works.		
Benn mine.....	51	A xvi	bridge, GRAND RIVER.....	33	B xiii
Carrying arsenic.....	101	xi	plough works, BRANTFORD.		
Coleman tp.....	86	A xv	Gas at, log of well.....	106	A xiv
Cobalt, Ont., analysis.....	23	B xiv	Oil at.....	25	A xiii
formula.....	12	B xiv	Cod.		
Description of.....	214	vi	Ungava bay, Lab.....	133	iv
Hardness of.....	202	vi	Codd, Dr. H. R.	34	A xv
Norway.....	67	B xiv		34	A xvi
Pihuamo, Mexico.....	71	B xiv	Code—?		
Spar island, L. Superior.....	56	B xiv	Measurements by, of limestone,		
Specific gravity of.....	202	vi	Bothwell oil-field.....	20	vi
Timagami, near.....	31	B xiv	Codrington, BRIGHTON TP., NORTH-		
Cobb, W. H.			UMBERLAND CO.		
Gold on Sturgeon lake, Th. B. d.,			Gravel deposits near.....	231	A xiii
discovered by.....	40	x	Cody, T.	40, 41	A xii
Notes by, on rocks near Ignace..	161	vii			

	Page.	Vol.		Page.	Vol.
Cody tp., ALG.			Coin clippers.		
Soil in, character.....	131	A xiii	Saxony.....	80	B xiv
Trees in.....	124	A xiii	Coinage.		
Coe, Arthur W.			Nickel for.....	373	R C
See also Coe Hill iron mine.				145	ii
Coe iron mine managed by.....	90	A xv		164	C xiv
owned by.....	262	xi	composition.....	184	iv
Contract between, and Anglo-			countries using, list of..	161	ii
American Iron Co.....	106	ii		224	ix
Cook iron mine owned by.....	31	viii	Germany.....	182	iv
Iron mining by, Bagot tp..	128	R C	Coke.		
	275	v	Analysis of.....	166	vi
Moore iron mine worked-by..	20, 47	xii	Canadian production, 1886-87...	243	R C
St. Charles and Welch iron mines			Heating power of.....	480	R C
worked by.....	32	viii	iron.		
George S.	141, 156	vi	Notes, by the Commissioners, on		
H. J.	91	ix	production of.....	216, 217	R C
William			<i>Colapates auratus.</i> See Flicker		
Appointed on R. C.....	x	R C	Colborne, CRAMAHE TP., NORTH-		
Letter by (and others) as Royal			UMBERLAND CO.		
Commissioner.....	xxiv	R C	Beach near.....	230, 231, 239	A xiii
Iron prospecting by, Madoc tp..	154	A xvi	altitude.....	222	x
Sudbury locations owned by.....	170	C xiv	Gravel bars near, splitting up of.	235	A xiii
Coe apatite mine, LOUGHBOROUGH			tp., HURON CO.		
TP., FRONTENAC CO.			Limestone from, analysis; sec-		
Notes on, 1892.....	251	ii	tion of strata in.....	67	B xiii
Hill, WOLLASTON TP., HASTINGS			Colby, Albert Ladd		
CO.			Ref. to paper by, on nickel-		
Copper at, native.....	197	ix	steel.....	165, 166	C xiv
Iron ore at, shown at World's			iron mines, PENOKEE-GOGBIC		
Fair.....	82	ii	RANGE, U.S.....	146	iii
mining.....	59	ii	Colchester tps., ESSEX CO.		
See also Coe Hill iron mine.			Iron ore in.....	23	ii
Mica-syenite near.....	214	viii	Natural gas in.....	120	i
Hill iron mine, WOLLASTON TP.,			log of boring for. 114, 115	A xiv	
HASTINGS CO.			Trenton formation in, position		
Notes on, by Merritt.....	127	R C	of.....	113	A xv
Ores of, tests on.....	103	ix	Colcleugh, G. W.		
	333	xii	Gold mining by, L. of the Woods	102	vi
sulphur in.....	86	ii		43	vii
Output from, 1901.....	262	xi	Cold Rolled Steel Co.	119	ii
Rocks of.....	57	ii	Coldwater river, L. SIMCOE	89	B xiii
Section of formation in.....	127	R C	Cole, Arthur A.		
Hill Mining Co.			Notes by, on gold on Night-hawk		
Capital and date of charter.....	7	vii	lake.....	219	A xvi
Notes on, by Ritchie.....	106	ii	Work by, 1893.....	61	vi
iron mine, MADOC TP., HAST-			L. C.	103	viii
INGS CO.			Coleman, Prof. A. P.		
Copper in.....	94, 95	A xiii	Acknowledgments to.....	142	ix
pyrites in.....	80	A xiv		169	vi
Notes on, 1901.....	262	xi		161	vii
1902.....	115	xii		196	viii
1905.....	90, 91	A xv	Analysis by, of brick-clays.	128, 129	iii
Coffey (KAMISKO-TAIA-SAGAIGAN)			Appointment of.....	13	iii
river, MATTAGAMI RIVER.				4	iv
Description of, by Kerr.....	119	A xv		4	v
main river near..	118	A xv	Assay by, of galena, McTavish tp.	38	R C
Rocks at and near mouth of.	132, 133	A xv	Corundum found by, in boulder		
Trees along.....	139	A xv	at Cobourg.....	244	viii
Coffin tp., ALG. See Aberdeen tp.			Description by, of:		
Cohen, S. W.	83	A xv	anorthosite, Seine river.....	226	viii
and Brzdeley	199	A xiii	asbestiform mineral, Elzevir tp.	98	iii
	67	C xiv	granite, Regina gold mine.	184, 185	v
Cohoes, ALBANY CO., N. Y.			iron-pyrites deposit, Goudreau		
Waterpower at.....	485	R C	lake.....	179	A xvi
Coimbatore dist., BURMA.			rocks, Sandy lake.....	170	vii
Corundum-bearing rocks of.....	231	viii	trap, Poole island.....	15	v
Coin Silver Mining Co.			Divisions by, of rocks of Michipi-		
Capital and date of charter.....	28	A xvi	coten div., ref. to.....	300	A xiv

	Page.	Vol.
Coleman, Prof. A. P.—Con.		
Examination by, of :		
cores from Bothwell dist.	18, 19	vi
jasplite outcrop, Alg.	167, 178	x
rocks from Opasatika river.	256	v
Instructions by, for a survey of the Nipissing-Algoma line.	167	vi
List by, of minerals found in Archæan rocks.	169	i
Notes by, on :		
Bear pyrites claim.	179, 180	A xxi
Big Dan claim.	105	xi
cement rock, Port Colborne.	34	xi
cores from Dunwich tp.	15	viii
geological features of Deloro g. Ll.	59, 60	vi
geology of Silver islet and vicinity.	137, 138	vi
iron ores of Ontario.	96, 97	ii
Mikado gold mine.	256	vi
petrography of Ontario.	145, 150	B vii
Papers by, on :		
anthraxolite.	Bull. ii	
159-161	vi	
building-stones.	133-136	iii
nepheline-syenite	250-253	viii
syenites near Port Coldwell.	208	xi
Petrography by, of quartzite from Aberdeen tp.	77	A xiii
Professor of Metallurgy, School of Science, Toronto.	215	i
Pyrites reported by, Nickel lake	150, 175	A xvi
Reports by :—		
1892. Ontario minerals at the World's Fair.	185-194	ii
1894. Gold in Ontario.	35-100	iv
1895. Gold-fields of Western Ont.	47-106	v
1896. Gold-fields of Western Ont.	Bull. i 71-124	vi
1897. Gold-fields of Western Ont.	109-144	vii
*1898. Michipicoten iron range. 354-358	viii	
Copper-Regions of the Upper Lakes.	120-174	viii
Copper in Parry Sound dist.	259-262	viii
1899. Copper and Iron re- gions of Ont.	143-191	ix
1900. Marine beaches in East- ern Ont.	215-227	x
Iron ranges of the Lower Mountain.	181-212	x
Vermilion River placers. 151-159	x	
1901. Michipicoten iron range. 152-185	xi	
Iron ranges of north- western Ont.	128-151	xi
1902. Sudbury nickel deposits. 235-299	xii	

* In collaboration with Willmott.

	Page.	Vol.
Coleman, Prof. A. P.—Con.		
Reports by.— <i>Con.</i>		
1903. Iroquois Beach in Ont.	225-244	A xiii
ref. to.	29	B xv
Northern nickel range.	192-221	A xiii
1904. Sudbury nickel region.	Pt. C	xiv
ref. to.	11	B xiv
12	A	xv
1905. Iron ranges of eastern Michipicoten	173-199	A xv
ref. to.	217	A xvi
1906. Iron ranges east of L. Nipigon.	105-135	A xvi
Surveys by, references to :—		
Cobalt.	212	A xvi
Minnitaki lake.	165	vii
Mississagi river.	169	xii
Vermilion River basin.	17	xi
Syenites shewn by, at Pan- American Exhibition.	87	xi
Views of, <i>re</i> diamonds in Rainy Lake reg.	124	ix
Work by, 1894.	3, 5	v
1895.	3, 4	v
1900.	6	x
1901.	6, 7	xi
1902.	5	xii
1903.	xii, xiii	A xiii
1904.	xvi	A xiv
1905.	15	A xv
50		xi
Dr. H.		
Dr. Timothy F.		
Evidence by, before R. C. <i>re</i> salt at Seaforth	54, 187	R C
industry	236	R C
<i>See also</i> Coleman Salt Co.		
W.	65	xii
and Bucke Consolidated Cobalt Silver Mg. Co.		
Capital and date of charter.	25	A xv
and Quebec Mg. Co.		
Capital and date of charter.	29	A xvi
Cobalt Mg. Co.		
Exhibits of, at Buffalo.	25	A xv
Development Co.		
Capital and date of charter.	25	A xv
Mining division.		
Creation and description of.	36, 37	A xvi
Salt Co.		
Operating salt, Seaforth	111	ix
38		xii
tp., Nip.		
<i>See also</i> Cobalt and Cobalt dist.		
Arsenic production, 1904.	22	A xiii
Cobalt in, abundant.	11	A xv
output, 1904.	8	A xiv
Constituted a mining division.	37	A xvi
Diamond drilling in, with Govt. drill.	31	A xvi
Nickel in.	145	C xiv
output of, 1904.	10	A xiv
Silver-cobalt ores of, report by Miller.	9-54	B xiv
Pt. B		xvi
mining in, 1904.	5	A xiv
1905.	7	A xv
notes.	73-87	A xv
Smaltite in.	11, 48	A xv

	Page.	Vol.
<i>Coleolus</i> .		
Kwataboahagan river.....	188 A	xiii
“ <i>tenuicinctum</i>		
Kwataboahagan river.....	188 A	xiii
photo, in limestone.....	192 A	xiii
“ <i>tenuistriatus</i>		
Kwataboahagan river, notes, dia- gram and photo.....	188, 192 A	xiii
<i>Coleophora</i> . See Birch, case-bearer		
Coleridge, William	124	i
Colland, W. & Son .		
Brick-yard of, notes.....	104 B	xv
Collier, W	102 A	xv
Collings, C. H.	1 Bull.	ii
	159	vi
“ Collingwood ” (SKIFF).....	147	viii
Collingwood, NOTTAWASAGA TP., SIM- COE CO.		
Beaches at, height of.....	155	viii
	176, 177	ix
Bituminous shales at.....	206	ix
analysis.....	109 B	xiii
Blast furnace at, photos.....	160, 161	xii
projected.....	17	ix
	25	x
See also Cramp Steel Co.		
Coal at, reported.....	203	ii
Epsomite near.....	198	ix
Lithographic stone from, analysis.....	110 B	xiii
Natural gas in.....	151	R C
Water-levels at.....	151	viii
harbour, GEORGIAN BAY.		
Rocks on: oil near.....	41, 42	R C
tp., GREY CO.		
Artesian wells in.....	59	i
Beach in. See Clarksburg.		
Brick-yards in. See Thornbury.		
Cambro-Silurian in.....	48 B	xiii
Niagara formation in.....	44	R C
Collins, John	58, 110	vii
Major.....	23	xii
bay, L. ONTARIO	221	x
inlet, GEORGIAN BAY.		
Limestone in, notes on.....	29 B	xiii
Colomb, Sir J. C. Ready	143	ii
Colombia.		
Nickel coinage in.....	161	ii
Colonial and Indian Exhbtn.	266	v
Copper Co.		
Work by, Hastings co.....	31	ix
Mines Co. of Ontario.		
Capital and date of charter.....	9	x
Mining Co.		
Capital and date of charter.....	29 A	xvi
Oil Co.		
Capital and date of charter.....	37 A	xiii
Portland Cement Co.		
Analysis of shale and marl used by.....	183 A	xiv
Capital and date of charter.....	8	xii
directors.....	19 B	xiii
Notes on, 1902.....	34	xii
1904.....	139-141 A	xiv
Plant of, erection.....	17 A	xiii
	18 A	xiv
	17 A	xv
photos.....	139, 140 A	xiv

	Page.	Vol.
Colorado, U. S.		
Amazon-stone in.....	236	vii
Analcite-basalt from, analysis... ..	173	viii
Custom mills and smelters in, notes by Major Long.....	34	iii
Gypsum in.....	119	R C
Mining laws of, notes by Roy.		
Com.....	280	R C
Veins of, character.....	202	R C
beetle.		
Destructive agent for.....	19, 251	iv
Paris green... ..	116	xi
Fort Mattagami.....	129 A	xiii
Unknown at Moose Factory.....	107	iv
School of Mines.		
Notes on, by Richards.....	509	R C
“ Colour ” of gold.....	531	R C
	257	vii
Colpoy Bay, ALBERMARLE TP., BRUCE CO.		
Cement works on.....	34	xii
	17, 19 A	xiii
	139 A	xiv
See also Colonial Portland Cement Co.		
Clinton formation at.....	49, 50 B	xiii
Medina.....	43	R C
Niagara.....	36 B	xiii
Columbia College, N. Y.		
System employed at.....	416, 417	R C
	212	i
notes by Galbraith.....	425	R C
Nather....	502, 503	R C
Richards... ..	509, 510	R C
Columbite.		
Black hills, S. Dakota.....	236, 237	vii
Composition and hardness of....	218	vi
Lyndoch tp.....	197, 211	ix
notes.....	234-236	vii
photo of beryl crystals.....	222	vii
Relation of, to tantalite.....	235	vii
Columbus, Christopher	61 B	xiv
Joseph See Columbus silver mine.		
Columbus, OHIO.		
Brick pavement in.....	109	iii
clay for, analysis.....	119, 120	iii
Corniferous formation in, thick- ness.....	156	i
Shales from, analysis.....	119	iii
Cobalt Silver Mg. Co.		
Capital and date of charter.....	29 A	xvi
Work by, Coleman tp.....	86 A	xv
Sewer Pipe Co.		
Analysis of shale used by.....	119	iii
<i>Columnaria alveolata</i> .		
Port Colborne.....	14 B	xiii
Colvocoresses, G. M.	103 A	xiii
<i>Comandra livida</i> .		
Abitibi dist.....	241 A	xiv
Mattagami valley.....	150 A	xv
“ <i>pallida</i>		
Abitibi dist.....	241 A	xiv
Comber, TILBURY, W. TP., ESSEX CO.		
Brick-yard at, notes on.....	63 B	xv
Gas in, boring for.....	153	R C
Oil in.....	156, 158	R C
	116, 117 A	xiv
	108 A	xv

	Page.	Vol.		Page.	Vol.
Comber.—Con.			Committee on Geological Nomenclature.		
Salt in, bore-hole record.....	186	R C	Description by, of geological formations at Black bay.....	29	A xiv
oil well, PELEE ISLAND, L. ERIE.			Report by, on Pre-Cambrian nomenclature.....	269-277	A xiv
Boring log of.....	43	B xiii	Commodore cape, GEORGIAN BAY, L. HURON.		
Combermere, REDCLIFFE TP., RENFREW CO.			Cambro-Silurian at and near...48, 50	B xiii	
Corundum near.....	218, 221	vii	Commonwealth Jewel Oil Co.		
mining. <i>See</i> Canada Corundum Co.			Capital and date of charter.....	31	A xvi
Combination gold mine, GOLD LAKE, L. OF THE WOODS.			Comstock gold mine, NEAR BOLAND LAKE, NIP.		
Evidence <i>re</i> , before R. C....	116, 117	R C	Notes on, 1896.....	269	vi
Notes on.....	21, 25	iii	1897.....	84, 85	vii
Combined gold mine, NEAR CAMP BAY, L. OF THE WOODS.			Gold Mining and Development Co.		
<i>See also</i> Combined Gold Mines Co.			Capital and date of charter.....	8, 85	vii
Idle, 1900.....	73	x	Minor ref. to.....	139	vii
Notes on, 1903.....	62, 63	A xiii	lode, NEVADA.		
1904.....	48	A xiv	Argentite in.....	207	vi
1905.....	55, 58, 59	A xv	Boring in, for silver.....	164	iii
Photos of.....	80, 81	ix	Concentration.		
48, 49	A xiii		<i>See also</i> Magnetic concentration.		
Re-opening of, expected, 1906...	43	A xvi	Definition of.....	322	xii
Work at, 1898.....	61, 277	viii	Concession (OF TOWNSHIP).		
1899.....	50	ix	Explanation of.....	218	vii
1906.....	60	A xvi	apatite mine, LOUGHBORO TP., FRONTENAC CO.		
Gold Mines Co.			Notes on, 1891.....	240	i
Capital and date of charter.....	8	vii	1892 (idle).....	251	ii
Comego, S.	184	A xiv	Concrete.		
Comerford, J. W. J.	102	vii	Making of, notes.....	173	A xiv
Iron mining by, Madoc tp ...	31, 32	viii	Specifications for, from Portland cement.....	180, 181	A xiv
Comet iron mine, PENOKEE-GOGEBIC RANGE, U.S.	146	iii	Uses of.....	174	A xiv
Mica Co.			Condensed Peat Fuel Co.		
Mica trimming works of, Ottawa.	106	A xv	Capital and date of charter.....	24	A xiv
91	A xvi		Cone butte, JUDITH MTS., MONTANA.		
Commanda, GURD TP., P.S.D.			Analysis of tinguaité-porphry from.....	189	ix
Rock from, petrography.....	182	ix	Conestogo, WOOLWICH TP., WATERLOO CO.		
Commercial Brick Co.			Brick-yard at, notes.....	104	B xv
Capital and date of charter.....	29	A xvi	clay used in, analysis.....	17	B xv
Mining Co. of Algoma.			Lacustrine ...	28	B xv
Brick works of, Sault Ste. Marie.	57	B xv	river, WATERLOO CO.		
Blue Lake nickel mine acquired by.....	285	xi	Lacustrine clay on.....	29	B xv
273	xii		Coney island, L. OF THE WOODS.		
Capital and date of charter.....	8	vii	Minor refs. to.....	13	iii
Elsie nickel mine acquired by...	281	xi	187	v	
Emily gold mine "...	77	xii	Part of, adrift.....	109	vi
Exploratory work by, in			Congdon, L. A.	137	i
Algoma.....	92	xi	Conger tp., P. S. D.		
Atikokan range.....	266	xi	Copper prospecting in.....	121	x
Godon lake (near).....	322	A xiv	Congking river, MISSISSAUGA RIVER, ALG.	145	A xiii
Michipicoten div.....	331	A xiv	Congkling magnetic separator.		
Nipigon Lake dist.....	265	xi	Description of.....	347, 348	R C
127	A xvi		Conglomerate.		
Frances Lake iron mine acquired by.....	328	A xiv	Animikie iron range, notes and photo.....	160, 161	A xv
Grace mine worked by.....	4	A xiii	Cobalt, Ont., boulders, notes by Miller.....	212	A xvi
<i>See also</i> Grace mine.			Definition of.....	235	vi
Hotel and store of, at Michipicoten harbour.....	127	x	Huronian, notes by Coleman.....	183-185	ix
Quartz mined by, for convertor-linings.....	26	A xvi	203, 204	x	
Rocks on claims of, Iron lake....	319	A xiv	Lake Superior, north shore.....	129	vi
Work by, Michipicoten div. 1900.	139	x	notes by Coleman.....	163-167	viii
1901.			photo of cave in.....	152, 153	viii
71, 72	xi				
1902.	62	xii			
licence to.....	65	xii			

	Page.	Vol.
Conglomerate.—Con.		
Larder lake, boulder, photo....	210 A	xvi
section showing....	205 A	xvi
Nipigon Lake dist. .112, 113, 146, 147	A	xvi
Pitti palace built of	134	iii
Rainy Lake dist, notes by Coleman.....	46	iv
Seine River dist.....	97, 98	v
	134	xi
Trout lake, Bowell tp., notes by Coleman.....	39, 94 C	xiv
petrography.....	129, 130 C	xiv
Congress Oil Co.	97 A	xvi
Coniagas Mines, Ltd.		
Capital and date of charter.....	29 A	xvi
Dividends, 1907.....	13 A	xvi
silver mine, COBALT, NIP.		
Notes on.....	76 A	xv
Producing	15 B	xiv
	7 A	xv
Conjuring booths (INDIAN).		
Notes on, by Coleman.....	93	vi
Photo of, L. of the Woods.....	80, 81	vi
Conjurors House, MISSINAIBI RIVER,		
ALG.....	178 A	xiii
portage, MISSINAIBI RIVER.	194	viii
Conlon, Thos.; Frances T.; John J.		
Govt. drill lent to	43, 45 A	xiii
Licences to.....	103	viii
	115	ix
Conly, L. H.	102	vii
Conmee, James		
Evidence by, before Royal Com.		
<i>re</i> free-trade.....	232	R C
Govt. aid to mining.....	426	R C
mining laws.....	312	R C
Notes by, on iron ores W. of Port Arthur. 68-70		ii
ref. to....	142	v
President, Tycoon Mg. and Dev. Co	58	ix
Statement by, <i>re</i> iron-mining in Canada.....	112-114	ii
Conmee tp., TH. B.D.		
Iron in.....	129, 130	xi
notes by Fraleck.....	172 A	xvi
pyrites, mining.....	107	x
weathering.....	184 A	xvi
Connemey, N.	73	xi
Connellsville, FAYETTE CO., PA.		
Coal from, for Butte copper mines.....	111	ii
Connecticut, U. S.		
Charcoal in, cost of.....	341	R C
Corundum in.....	241	viii
river, U. S.		
Waterpower of, at Turners falls..	485	R C
Connor—?	260	vii
Connors—?	192	vii
<i>Conocardium cuneus.</i>		
Kwatabahegan river.....	188 A	xiii
<i>cuneus</i> var. <i>trigonale</i> .		
Anderdon tp.....	126	xi
<i>trigonale.</i>		
Anderdon tp.....	125	xi
Beachville (near).....	92 B	xiii
Hagersville.....	145	xii
St. Marys.....	151, 152	xii
	96 B	xiii

Consider—?

Conclusions of, <i>re</i> steel and concrete in buildings.....	175 A	xiv
Consolidated Cariboo Hydraulic Mg. Co.	8 A	xiv
Copper Co.		
Capital and date of charter.....	8	xii
Work by, Parry Sound dist.....	116	xii
Gold Fields Development Co.		
Capital and date of charter.....	8	vii
gold mine, MARMORA TP., HASTINGS CO.		
Arsenious acid manufactured at.	76	R C
Description of.....	107, 110	R C
Notes on, by Rothwell.....	106	R C
Treatment of tailings at.....	111	R C
copper mine, SPIDER LAKE, P. S. D.		
Notes on, 1903.....	93 A	xiii
Mines Co. of L. Superior.		
Big Master g. m. worked by.....	16	xii
Boring plant purchased by.....	42 A	xiii
Capital of.....	92	xi
and date of charter....	11	xi
Financial embarrassment of.....	82 A	xiii
Lake Superior Power Co. floated by	87 A	xiii
Mines worked by, list of.....	96	xii
Officers of.....	92	xi
	72 A	xiii
West-End silver mine sold by...	61 A	xvi
Work by, Port Arthur dist., 1901.	256-258	xi
	1902.	16
Works of, at Soo, photo.....	96, 97	xi
plan.....	93	xi
<i>See also</i> Sault Ste. Marie.		
Mg. and Smelting Co.		
Capital and date of charter.....	31 A	xvi
Silver Islet Co. <i>See</i> Silver Islet Co.		
Steel Co.	119	ii
White Bear Mg. Co.		
Capital and date of charter.....	11	xi
Constable Hook, N. J.		
Sudbury ores refined at.....	27	vii
	146 C	xiv
	11 A	xv
	15 A	xvi
<i>See also</i> Orford Copper Co.		
Consumers' Oil Refinery.		
Notes on, by the manager	164, 165	R C
Consumption.		
Among Indians, Abitibi dist ...	186	viii
Contact gold mine, ANDREW BAY, L. OF THE WOODS.		
Notes on, 1897.....	112	vii
portage, MAGPIE RIVER, ALG.		
Description of river near.....	201	vii
Continuity claim, MICHIPICOTEN DIV.	139	x
<i>See also</i> Kitchi-Gammi Gold Mg. Co.		
<i>Contopus virens.</i> <i>See</i> Pewee, wood		
Contraction.		
As a cause of veins.....	251	v
Contre, Joseph.	87	vii
<i>Conularia.</i>		
Anderdon tp.....	125	xi

	Page.	Vol.		Page.	Vol.
Converse, E. C.	22	xi	Copp's Manual for Prospectors.		
<i>Convolvulus sepium.</i>	172 C	xiv	Extracts from, on determination		
Mattagami valley.....	151 A	xv	of minerals.....	447-464	R C
Conway, PENN.			Copper.		
Corniferous formation at, thick-			Alloys of, antiquity.....	381	R C
ness.....	156	i	with aluminium.....	174	i
Cook, C.	102	vii	nickel, notes by		
	140	x	Levat.....	159	ii
Prof. G. H.			Chili, production, 1857-67-87....	371	R C
Views of, on plasticity of clays..	34 B	xv	Composition of, and formulæ ...	201	vi
G. M.			Germany, notes on smelting....	375	R C
Mispickel mining by, Marmora			Schaud.....	146 C	xiv
tp.....	197	xi	Hardness of native.....	202	vi
	93 A	xiii	Hints on, to prospectors.....	455-457	R C
Henry See Cook amalga-			Ores of, notes on minerals in. 211, 212		vi
mator.			Output of, retarded by low price.		
Prof. Josiah P.	507	R C	68, 97, 101		R C
J. W.			175		i
Gold mining by, Clarendon tp..	105	xi	world's, 1880-1887....	371	R C
Robert A.	349	R C	Percentage of, in nickel coinage.	184	iv
	339	xii	Price of, 1895.....	211	vi
Thomas			Portugal, production, 1879, 1887.	371	R C
Brick-making by, Orangeville... 61 B		xv	Separation of, from nickel, notes		
amalgamator.			by Levat.....	156	ii
Description of.....	23	iii	Smelting of ores of, paper on. 234-236		i
gold mine. See Babcock mine.			various pro-		
iron mine, MADOC TP., HAST-			cesses.....	375	R C
INGS CO.			Spain, notes on famous mines.		
Notes on, 1898.....	31	viii	371, 372		R C
lake, NEAR SCHREIBER, TH. B. D.			Rio Tinto... 178 C		xiv
Pyrites mining on.....	177 A	xvi	production, 1881, 1887....	371	R C
See also Otisite pyrites mine.			Specific gravity of.....	202	vi
Land Co.			Test for.....	449	R C
Minor ref. to.....	14	xii	Canada.		
Mispickel in claims of.....	102	xi	Belt of, from L. Huron to L.		
Work by, Marmora tp.....	234	xi	Mistassini.....	24	R C
	110	xii	Production, 1870, 1880.....	209	R C
Cook's mills, CASTOR RIVER, OTTAWA			1886.....	243	R C
RIVER.			1887.....	209, 213	R C
Limestone at.....	108 B	xiii	1888.....	525	R C
Cooke, A. W.	108, 109	iii	retarded by duties.. 217		R C
Cookstown, TECUMSETH TP., SIMCOE			Gt. Britain.		
CO.			Cornwall.....	34	i
Iroquois beach at.....	229 A	xiii	60, 61		iii
Cooley, W. F.	100	x	Dalcoath tin mine.....	173	i
Coolgardie, WEST AUSTRALIA.			production, 1860, 1887....	371	R C
Water supply of.....	8	v	Wales, in peat bog.....	206	ii
Cooper, Dr. E. G.	55, 56	xii	ONTARIO.		
Henry	97 A	xvi	Distribution of.....	192	ii
John D.			197		ix
Oil on farm of, E. Tilbury tp....	98 A	xvi	notes by Blue.....	175	i
Photo of oil works on farm of..	96 A	xvi	Borron....	99	R C
Charles & Co.	122	xi	Merritt . 89-90		R C
Hewitt & Co.	353	R C	Evidence <i>re</i> , before R.C.....	92-106	R C
	39	i	Mines of, inspector's report on:		
Coosaw Mining Co.	15	i	1891.....	229-234	i
river, S. CAROLINA.	15	i	1892.....	241-243	ii
Copeland, E.	39 A	xv	1893.....	182-191	iii
George	81	xii	1894.....	239-249	iv
	41 A	xiv	1895.....	267-274	v
Brewery, TORONTO.			1896.....	270-277	vi
Well at, notes by Dingman....	152	R C	1897.....	93-97	vii
Copenhagen Milk Supply Co.			1898.....	33-37	viii
Notes by, on moss-litter in stables.	211	ii	1899.....	94-101	ix
Coplay, LEHIGH CO., PENN.			1900.....	118-125	x
Analysis of limestone from....	15, 16 B	xiii	1901.....	266-286	xi
Copp, William	330, 400	R C	1902.....	97-102, 115-125	xii
			1903.....	93, 94 A	xiii

	Page.	Vol.
Copper.—Con.		
ONTARIO.—Con.		
Mines of, inspector's report on :		
1904.....	60-67 A	xiv
1905.....	67-69 A	xv
1906.....	68-72 A	xvi
Report on, by Coleman.....	143-191	ix
Statistics of, 1870, 1880	210	R C
1887.....	210	R C
1892.....	11	ii
1893.....	8, 10	iii
ix		viii
1894.....	11, 20-22	iv
1895.....	11, 18, 19	v
1896.....	13, 40, 41	vi
ix		viii
1897.....	15, 25	vii
1897-98		
Prefaces to B and C		vii
1898	11, 18	viii
1899.....	ix	viii
13, 17, 18		ix
1900 ...	7, 11, 12, 35, 36	x
1901.....	7	x
8-13, 19-21		xi
1902.....	8	xi
12, 13, 17, 18, 288		xii
1903.....	2, 6, 7 A	xiii
1904.....	9-11, 44 A	xiv
1905.....	1-3, 13 A	xv
1906.....	3-6, 15, 16 A	xvi
method of computing.....	4 A	xvi
Algoma.		
Aberdeen tp.....	22	xi
Bruce Mines dist.:—		
Bruce mines, cost of mining...	66	iii
early mining. 174-177		ii
evidence before		
R. C.		
23, 68, 88, 92, 100		R C
production.....	122	iv
revival of inter-		
est.....	129	ii
smelting,...	402, 403	R C
notes by Bell	23	R C
Blue	35, 36	iii
Coleman. 124, 125, 148, 149		viii
Wellington mine.....	209	v
notes by Blue	36, 37	iii
Brulé harbour, prospecting near.	63	xi
Desbarats (near).....	188	x
Flat-point island, L. Huron.....	114	R C
Gargantua cape.....	205	vii
132		viii
Mamainse pen.....	197	R C
194		ii
123		iv
208, 209		v
early knowledge.....	110	v
exploratory work	4	v
mining.....	98, 102	R C
development.....	4	iv
notes by Coleman.....	128, 129	viii
Sibley.....	129-131	ii
paper by Blue.....	62-78	iii
Dawson.....	78-82	iii
May tp.....	68 A	xv
Michipicoten, prospecting near..	254	v

	Page.	Vol.
Copper.—Con.		
Michipicoten island.....	60	R C
123		iv
208		v
205		vii
19, 143		viii
(native).....	11 Bull.	iii
Mississagi river.....	164, 165	xii
Narrow bay, Georgian bay.....	91	i
Point-aux-Mines, notes on abandoned mines.....	129	viii
Rock lake	19	viii
22		xi
Root river.....	72 A	xvi
Sault Ste. Marie div.....	205	R C
41 A		xvi
evidence before R. C.....	60	R C
Sudbury dist.....	89, 90	i
associated with sulphur.....	22 A	xvi
Creighton tp., prospecting for.	180 A	xvi
Denison tp.....	425	R C
Graham tp.....	425	R C
Levack tp.....	434	R C
notes by Bell.....	23, 24, 433, 434	R C
production, 1890-1902	288	xii
1892-1904	154 C	xiv
<i>See also above, Ontario, statistics.</i>		
proportion to nickel.....	378, 405	R C
Snider tp.....	425	R C
with diorite	434	R C
Trill tp.....	8	iii
Thompson tp.....	69 A	xv
Upper Lakes, The, report by		
Coleman.....	120-174	viii
Welland river (near).....	203	viii
Whiskey lake.....	72 A	xvi
Hastings co.		
Coe iron mine.....	94, 95 A	xiii
80 A		xiv
Eldorado (near).....	15, 16, 76, 80 A	xiv
Muskoka dist.		
Brunel tp., boring for	59	xi
Nipissing dist.		
Misemikowish lake.....	223	xi
Sudbury dist. <i>See above, Algoma.</i>		
Timagami lake.....	56	R C
Wanapitei lake, discovery	434	R C
Parry Sound district.		
Cowper tp.....	274	v
mining, 1898.....	88	vii
1899.....	100	ix
1902.....	116	xii
1904.....	80 A	xiv
<i>See also Beatty and Wilcox mine.</i>		
Report by Coleman.....	259-262	viii
Rainy River dist.		
Lake of the Woods.....	101	vi
Andrew bay (native).....	105	v
99		vi
Thunder Bay dist.		
L. Superior, N. shore.....	129, 131	vi
Black bay.....	85, 86	ix
109		x
Jackfish bay.....	86	x
Nipigon formation	36	R C
notes by Selwyn.....	67	R C

	Page.	Vol.
Copper.—Con.		
ONTARIO.—Con.		
Thunder Bay dist.—Con.		
Lake Superior.—Con.		
Otter cove, prospecting for....	115	A xvi
report by Coleman.....	120-174	viii
Thunder bay, notes by Coleman.....	145-150	ix
Nipigon lake, prospecting for... ..	115	A xvi
Round lake, notes by Coleman..	75	v
Shebandowan lake.....	80	v
Upper Lakes, The, report by Coleman.....	120-174	viii
United States.		
Lake Superior, Isle Royale.....	92	R C
paper by Irving. 82-88		iii
Michigan, notes by Coleman. 144, 145		ix
production, 1879.....	371	R C
Oregon, Grant co.....	71	B xiv
Production, 1879.....	371	R C
1887.....	213	R C
1888.....	525	R C
Wisconsin, Houghton co., pureness.....	375	R C
Keweenaw pt.....	208	v
Ontanagan river.	63	iii
	110	v
Copper, arsenide See Domeykite.		
black See Melanconite.		
carbonate. See Azurite.		
glance (CHALCOCITE).		
Bannockburn (near).....	42	A xv
Determination of.....	204, 212	vi
Hardness of.....	202	vi
Hints on, to prospectors.....	456	R C
Occurrences of.....	196	ix
Parry Sound (near).....	37	iv
Port Arthur region.....	54, 58	B xiv
Specific gravity of.....	202	vi
Vermilion mine, Sudbury dist..	161	c xiv
grey See Tetrahedrite.		
nickel. See Niccolite.		
ore. See Copper.		
purple See Bornite.		
Copper pyrites (CHALCOPYRITE).		
Abitibi lake.....	219, 220	A xvi
Association of, with gold.....	37	iv
Bannockburn, near.....	42	A xv
Belmont tp.....	48, 51	iii
Blanche river, near.....	25	B xiv
Burgess, N. tp.....	214	vii
Christie tp.....	121	x
Cobalt dist.....	xi, 100, 101	A xiii
Copper mt., B. C.....	162	C xiv
Cross lake.....	25	B xiv
Determination of.....	203, 212	vi
Dinorwic (near).....	125	vii
Edgewood island, L. Huron.....	109	R C
Effect of, on apatite deposits....	442	R C
Gapp mine, Penn.....	146	C xiv
Giroux lake.....	53	A xvi
Hardness of.....	202	vi
Hints on, to prospectors.....	456	R C
Hungerford tp.....	133	R C
Jackfish bay, L. Superior.....	190	v
Jackfish lake.....	76, 77, 80	v
Lacloche mtns.....	59	R C
Lake of the Woods.....	20	iii
Echo bay.....	49	v
Granite lake.....	25	iii
Shoal lake.....	64	v

Copper pyrites.—Con.

	Page.	Vol.
Larder Lake dist.....	214, 215	A xvi
Headquarters lake.....	221	xi
Mattagami river.....	128	iv
Michipicoten div., in auriferous veins.....	11	Bull. iii
Minnitaki lake.....	57, 87	v
Net lake, with mispickel.....	173	ix
Occurrences of.....	196	ix
Parry Sound, south of.....	100	iv
Port Arthur dist., silver veins. 54, 58		B xiv
Three A mine.....	28	R C
Rainy Lake region.....	73	iv
Round lake, E. of Moss tp.		
75, 87, 118, 119		v
Shebandowan lake.....	80	v
Silver islet.....	86	v
	55	B xiv
Spar island.....	56	B xiv
Speight's meridian line, E. of L. Superior.	203	viii
Specific gravity of.....	202	vi
Sudbury dist.....	90, 91	i
	15, 116	C xiv
Bleazard tp., notes by Bell.....	433	R C
Creighton tp.....	180	A xvi
Creighton mine.....	34, 111	C xiv
description.....	160, 161	C xiv
Lady Evelyn lake.....	25	B xiv
Ramsay lake, near.....	78	C xiv
Vermilion mine.....	179	ii
Trout lake, Bowell tp.....	201	A xiii
	71	C xiv
Vancouver island, B. C.....	117	viii
Wanapitei lake, discovery.....	434	R C
White-rock lake.....	165	vii
red See Cuprite.		
yellow See Copper pyrites.		

Copper Bay mine, BRUCE MINES, ALG. 94 ix

Cliff, SNIDER TP., ALG.		
See also Copper Cliff nickel-copper mine.		
Clay near.....	241	xii
for agriculture.....	106	C xiv
furnaces.....	57	B xv
Cobalt ores treated at, plant for. 32, 73		B xiv
8, 47		A xv
11, 25		A xvi
ores for, description.....	65	A xvi
statistics, 1906.....	12	A xvi
photos.....	87, 90, 91	C xiv
Concentrating plant at.....	37	x
Growth of.....	64	xi
	141	C xiv
Hospital at, photo.....	87	C xiv
Library at, free.....	36	viii
Outcrop near, suggests a vein... ..	19	C xiv
Quartz mined near, for flux.....	121	xii
	76, 122	C xiv
Rocks at and near :		
arkose.....	92	C xiv
diabase.....	126	C xiv
gneiss.....	123	C xiv
granite.....	124	C xiv
greywacké.....	88, 89	C xiv
Huronian.....	128	C xiv
pillow structure of.....	52	C xiv
quartzite.....	127	C xiv

	Page.	Vol.
Copper Cliff.—Con.		
Smelter at	19	xii
photos.....	272, 273	xi
See also Ontario Smelting Works.		
Striae near, direction..	101 c	xiv
Terrace near, altitude	103 c	xiv
Cliff nickel=copper mine, Mc-		
• KIM TP., ALG.		
Accidents at, 1893.....	167-176	iii
1894.....	206-213	iv
1895.....	236, 239, 240	v
1897.....	30, 31	vii
1898.....	24, 25	viii
1899.....	25	ix
1902.....	45	xii
1903.....	38, 39 A	xiii
1906.....	33 A	xvi
Blueite (?) in.....	282	xii
	160 c	xiv
Copper in, proportion.....	378	R C
	280	xii
	15, 137, 152 c	xiv
Discovery of	3, 134, 169 c	xiv
Evidence <i>re</i> , before Roy. Com.		
68, 103, 104, 405		R C
Galena in.....	92	i
	282	xii
	161 c	xiv
Gangue minerals in.....	163 c	xiv
Gold in, percentage	153 c	xiv
History of.....	285	xii
and geology of.....	258-261	xii
Inspector's report on, 1891.....	230	i
1892	243	ii
1893..	182, 183	iii
1894..	240-244	iv
1895..	267-272	v
1896..	270-273	vi
1897..	94-97	vii
1898....	33, 34	viii
1899.....	96	ix
1900..	121, 122	x
1901... 64, 277		xi
1902.....	118	xii
1903.... 84, 85 A		xiii
1904.....	70 A	xiv
Laccoliths near.....	9 c	xiv
Map of.....	At end of Pt.	xii
Matte of, analysis.....	283	xii
	152 c	xiv
Metallurgy at, paper by Mc-		
Arthur on methods of.....	209-303	xii
Millerite in.....	281	xii
	59 B	xiv
	159 c	xiv
Mining class at, 1893.....	217	iv
1903.....	54 A	xiii
Natural gas in.....	260	xii
Nickel in, percentage of.....	15, 152 c	xiv
oxide from, analysis.....	180	ii
Notes on, by Bell.....	24	R C
Merritt.....	90	R C
Opened up.....	137 c	xiv
Ores of, character.....	278, 279	xii
	21 c	xiv
sent to England.....	89	i
	236	xii

	Page.	Vol.
Copper Cliff nickel=copper mine.—Con.		
Output of.....	10 A	xiv
	156 c	xiv
	12 A	xv
Palladium in.....	155, 162 c	xiv
Photos of.....	16, 17	vi
	256, 257	xii
Plans of.....	256, 257	xii
	44-47 c	xiv
Platinum (sperrylite) in.....	5 A	xiv
Railway to.....	136 c	xiv
Roast heaps at, photo	38 c	xiv
Rocks in and near	295, 296	xii
diabase dikes	435	R C
	298	xii
	85 c	xiv
felsites, character	290	xii
gneiss	293	xii
	83 c	xiv
granite	14 c	xiv
greenstone.....	75	i
	81 c	xiv
Laurentian.....	10 c	xiv
nickel-bearing	13 c	xiv
off-set deposits... ..	20, 50 c	xiv
notes by Coleman	40-48 c	xiv
petrographical notes.....	292	xii
	114 c	xiv
quartz-syenite.....	434	R C
Section of.....	42 c	xiv
Shaft of, angle and depth	381	R C
Silver in, percentage of.....	153 c	xiv
Smelter at, capacity.....	435	R C
photo.....	39, 108 c	xiv
See also Copper Cliff.		
Sulphides of.....	277	xii
percentage	151, 153 c	xiv
Cliff No. 2 mine, COPPER		
CLIFF, ALG.		
Notes on, 1905.	64 A	xv
1906.....	64 A	xv
Output, 1906.....	12 A	xvi
creek, MAMAINSE PEN., L. SUPERIOR.		
Copper mine on.....	72	iii
notes and photo.....	73-75	iii
Creek Mining Co.		
Work by, Mamainse pt., 1894....	240	iv
King Mining Co.		
Capital and date of charter.....	9	ix
lake, S. OF SHEBANDOWAN LAKE, TH. B. D.		
Description of, by Blue.....	128	v
Minor refs. to.....	127, 130	v
Rocks on.....	81	v
Mining and Smelting Co.		
Bruce mines worked by.....	12, 68 A	xv
	16, 70 A	xvi
Capital and date of charter.....	25 A	xvi
mt., ILLECILLEWAET DIST., B.C.		
Sperrylite in.....	162 c	xiv
pt., SAND BAY, L. SUPERIOR.		
Rocks at.....	69	iii
Queen mine, BISBEE, ARIZONA.		
Azurite from.....	212	vi
Queen mine, MORIN TP., NIP.		
Notes on, 1903.....	80, 81 A	xiii
Photos of.....	96, 97 A	xiii

	Page.	Vol.		Page.	Vol.
Copper Queen Mining Co.			Cornell University.		
Capital and date of charter.....	8	xii	Notes, by Mather, on technical		
Work by	80 A	xiii	teaching at.....	503	R C
Copperas harbour, NEAR KEWEENAW			Corner lake, NEAR WHISKEY LAKE,		
PT., L. SUPERIOR, U. S.....	63	iii	ALG.		
<i>Coptis trifolia.</i>			Quartz copper veins on.....	67 A	xiv
Abitibi Lake dist.....	241 A	xiv	photo.....	63 A	xiv
Mattagami valley.....	150 A	xv	Cornfield copper mine, FOLEY TP.,		
Copus, S. T.....	117, 119	i	P. S. D.		
	28	v	Notes on, by Coleman.....	168	ix
Cora gold mine, MICHIPICOTEN DIV.,			Cornhill, James		
ALG.	80	xii	Brick-yard of, Chatham, notes		
Coracite.			and photo... ..	72 B	xv
Mamainse pt.....	194	ii	Corniferous formation (DEVONIAN).		
analysis	197	ix	Brant co.....	33 B	xiii
Coral portage, ABITIBI RIVER	138 A	xiii	Bruce co.....	35 B	xiii
<i>Corallorhiza innata.</i>			Composition of.....	99 A	xiv
Mattagami valley.....	150 A	xv	Description of.....	25 B	xiii
Corbeau (Corby) pt., BATCHAWANA			Distribution of.....	25 B	xiii
BAY, L. SUPERIOR.			notes by Bell.....	47, 48	R C
Fishing industry at.....	128	viii	Elgin co.....	41 B	xiii
Cordick, Samuel			Essex co., Anderdon tp., paper		
Foreman, Amy mica mine.....	250	ii	by Nattress.....	123-127	xi
Canton apatite mine..	251	ii	Fredonia, N. Y., thickness.....	130	i
Coe apatite mine.....	195	iii	Gas borings in, various.....	129, 133	i
	276	v	Haldimand co.....	53 B	xiii
Hanlan mica mine....	129	xii	Huron co.....	66 B	xiii
	88 A	xvi	James Bay dist	205.	v
Manager, Gould Lake mica mine.	133	x		32 B	xiii
Cordova Exploration Co.*			Kent co., E. Tilbury tp., thick-		
Belmont gold mine worked by ..	88	vii	ness.....	103 A	xvi
	22, 40	viii	Middlesex co.....	80 B	xiii
	92	ix	Norfolk co.....	88 B	xiii
	56, 57	xii	Notes on, by Park.....	143	xii
Belmont Gold Mg. Co. floated			Oil in, decreasing	23 A	xvi
by.....	14, 111	xii	Oilfields, thickness in.....	96, 99 A	xiv
See also Belmont g. m.			Oxford co.....	91 B	xiii
Capital and date of charter.....	10	x	Woodstock.....	142	xii
gold mine. See Belmont g. m.			Perth co.....	95 B	xiii
Cork pine. See Pine, white			Position of, in Devonian.....	2	R C
Corkill, E. T.			Tar in	543	R C
Inspector of mines.....	33 A	xvi	Welland co.....	116, 118 B	xiii
Paper in preparation by, on mica			Port Colborne.....	34, 35	xi
of Canada.....	91 A	xiii	Cornucopia gold mine, L. OF THE		
Reports by, on :—			WOODS.		
Accident at Massey Station			Notes on, 1896.....	50, 107	vi
mine.....	32, 33 A	xv	1897.....	54, 120	vii
Mines of Ontario, 1906.....	55-82 A	xvi	1898.....	67, 68, 276	viii
ref. to,.....	2 A	xvi	idle.....	280	viii
Petroleum and natural gas..	88-117 A	xiv	Cornus canadense.		
ref. to.....	21 A	xiv	Abitibi Lake dist.....	241 A	xiv
	109 A	xv	Mattagami valley.....	150 A	xv
Work by, 1905.....	8 A	xv	“ <i>paniculata.</i>		
Corkscrew island, L. OF THE WOODS.			Abitibi Lake dist.....	241 A	xiv
Farming on.....	105	vi	Mattagami valley.....	150 A	xv
Corliss, C. V.			“ <i>stolonifera.</i>		
Manager, North Star mine.....	72 A	xiv	Abitibi Lake dist..	241 A	xiv
	36 C	xiv	Mattagami valley.....	150 A	xv
Victoria mine.....	65 A	xv	Cornwall, CORNWALL TP., STORMONT		
	67 A	xvi	CO.		
Corn. See Indian corn.			Fossils from	224	x
Corneille, C. C.....	83	viii	dolphin.....	217, 219	x
Cornell, James			Post-office at, building stone of .	96	i
Pottery clay worked by, Thed-			Pottery works at.....	29	xii
ford.....	155	xii	Cornwall, LEBANON CO., PENN.		
	70 B	xiii	Iron mine at.....	20	

* Misprinted Cardona.

	Page.	Vol.		Page	Vol.
Cornwall co., ENGLAND.			Corundum.—Con.		
Arsenic mining in	60, 61	iii	Methuen tp.....	204, 205	xi
101		xi	Notes on, by Goodwin.....	217	vi
production.....	111	xi	Papers and reports on, by :—		
Copper in.....	173	i	Blue.....	61-66	vi
Granites of.....	540	R C	241-249		viii
tin-bearing.....	162 A	xv	De Kalb.....	240-250	vii
Mining royalties.....	31-35	i	Miller.....	207-230	vii
Night-schools at	509	R C	205-240		viii
Tin in.....	34, 35, 173	i	Production, 1900.....	11, 12	x
for salting in Byron tp....	139	viii	1901.....	13, 38	xi
tp., STORMONT CO.			1902.....	12, 13, 37	xii
Marine deposits in.....	219	x	1903.....	3, 4, 19-21 A	xiii
“Corona” ss.			1904.....	1, 3, 18, 19 A	xiv
Mica covering fitted to boilers of.	32	v	1905.....	1, 19 A	xv
Corona Mining Co.			1906.....	3, 4, 6, 21 A	xvi
Capital and date of charter.....	9	ix	Photos of.....	216, 217, 232, 233	viii
Licence to.....	115	ix	Renfrew co.....	207-230	vii
140		x	205, 222-224		viii
Work by	114	ix	Craigmont, notes and		
Coronado Gold Mg. Co.			photos of plant....	21, 84 A	xvi
Capital and date of charter.....	8	vii	map showing.....	207, 208	vii
See also Sentinel gold mine.			mining	82 A	xvi
Coronation Gold Mining Co.			Specific gravity of.....	203	vi
Capital and date of charter.....	37 A	xiii	United States :—		
Operating Burley mine.....	60 A	xiii	Georgia and N. Carolina.	19	ix
gulf, MACK.			production, 1888.....	525	R C
Archæan rocks southward from..	246	v	Hill mine, NEAR FRANKLIN,		
Coroners’ inquests.			N. CAROLINA.		
On deaths from mining accidents,			Production of, 1900.....	38	xi
notes.....	176, 177	iii	Refiners, Ltd.		
See also Accidents.			Formation and objects of.....	21, 89 A	xiii
Corrigan lake, STURGEON RIVER, TH.			Non-producing.....	19 A	xiv
B. D.			<i>Corvus americanus.</i> See Crow.		
Altitude and length of.....	137 A	xvi	“ <i>corax-principalis.</i> See Raven,		
Rocks on and near.....	142, 147 A	xvi	northern		
Sand plains near	148 A	xvi	Cory, E. N.	103	viii
Corson, Carroll	70, 75	ix	115		ix
Cort, Henry			Corydalis aurea.		
Puddling furnace of	xxi, 359, 360	R C	Abitibi dist.....	241 A	xiv
Corundum.			“ <i>glauca.</i>		
Act governing disposal of lands			Abitibi dist.....	241 A	xiv
containing.....	248, 249	viii	Mattagami valley.....	150 A	xv
Analysis of, and of rocks bearing.			Coryell, B. C.	95	ix
238, 239		vii	<i>Corylus americana.</i> See Hazel.		
Blue mountains.....	193	xi	“ <i>rostrata.</i>		
Burgess tps.....	190, 194	ii	Abitibi dist.....	242 A	xiv
Burma.....	62	vi	<i>Corythuca arcuata.</i> See Bugs, lace		
213		vii	Cosala, LINALOA STATE, MEXICO.		
notes by Miller and Hol-			Cobalt minerals in.....	71 B	xiv
land.	229-233, 241, 242	viii	Cossette, Henry	52	x
Concentration of.....	239-243	vii	Costa Rica.		
Crushing curves of, plates shew-			Nickel coinage in.....	161	ii
ing.....	240, 241	vii	Coste, Eugene		
Hardness of.....	535	R C	Analysis of iron ore taken by, in		
201, 203		vi	Hutton tp.....	73 A	xvi
214		vii	Map made by, of Deloro g. m.,		
Hastings co., Carlow tp.....	84 A	xvi	ref. to.....	59	vi
mining	82 A	xvi	Notes by, on :—		
notes	250	vii	boring for gas and oil by his Co.	133	i
York river.....	34 A	xvi	Essex co.....	114 A	xiv
Industry of, 1899.....	19-21	ix	Mimico.....	138, 139	i
1900.....	25, 26	x	oil and gas, Kent co.....	92, 102 A	xvi
1901.....	37, 38	xi	origin.....	92, 96 A	xiv
1902.....	37, 135, 136	xii	Welland co.....	104 A	xi
1903.....	19-21, 88-90 A	xiii	Oil found by, in Oriskany forma-		
1904.....	74, 75 A	xiv	tion.....	114 A	xiv
1905.....	97-99 A	xv	Paper by, on natural gas, ref. to.	198	ix
1906.....	21 A	xvi	88 A		xiv

	Page.	Vol.		Page.	Vol.
Coste, Eugene—Con.			Cournager, N.	140	x
President, Ontario Natural Gas Co.	117	i	Coursing stone.		
Promoter, Provincial Natural Gas			Statistics of. <i>See</i> Building-stone.		
and Fuel Co.	132	i	Courtis, W. M.	145	vi
Report by, L. of the Woods, ex-				52 B	xiv
tract.	20	iii	Courtright, MOORE TP., LAMBTON		
ref. to	37, 68	iv	co.		
Natural Gas and Petroleum.			Boring at, for water.	59	i
	115-118 A	xv	Natural gas at	151, 153	R C
Thickness of drift in Kent co.			Salt at.	55, 182, 183	R C
given by	102 A	xvi	notes by Carter.	191	R C
Views of, on:—			record for boring for.	186	R C
occurrence of ores in Arch-			Section from, to Hamilton. .	100, 101 A	xiv
æan rocks	56-58	ii	Salt Co.		
origin of oil and gas.	92, 96 A	xiv	Notes on, by J. Carter.	191	R C
iron ores, Hastings			Coutlee, Dr. H. N.		
dist.	41	ii	Gold prospecting by, Oso tp.	265	v
Work by, for United Gas and Oil			Couture, Joseph.	34, 35 A	xvi
Co.	43	xi	lake, NEAR STURGEON LAKE,		
Cotta, H. Von			R.R.D. AND TH.B.D.		
Notes by, on Joachimsthal dist.,			Gold mining on and near.	86, 87	xii
Bavaria	62 B	xiv		60 A	xvi
Cotter, Alexander.	41	ix	<i>See also</i> Jack Lake G. Mg. Co.		
	16	xii	St. Anthony Reef g.m.		
Cotton-boll weevil.			Steele's g. m.		
Arsenic for extermination of.	116	xi	Map of.	96, 97	xii
Cottrell, R.	140	x	Covellite.		
<i>Cottus uncinatus.</i>			Rainy Lake dist.	197	ix
Greens creek, near Ottawa	224	x	Cow parsnips.		
Couchiching falls, ABITIBI RIVER.			Night-hawk lake.	123 A	xiii
Description of river near	185, 186 A	xiv	Cowain, E. J.	76 A	xvi
Height of	235 A	xiv	Cowan, Alexander		
Minor ref. to.	187	xii	Iron mining by, N. Crosby tp. .	137	R C
Photos of.	144, 145 A	xiii	Report by, on Playfair iron mine.	39	vi
Quartz-porphry near.	210, 211 A	xiv	John		
Soil near	226 A	xiv	Pyrites mining by, Elizabeth-		
analysis	246 A	xiv	town tp.	152 A	xvi
for farming.	200 A	xiv	William.	124, 125	vii
Water-power at.	208, 209, 235 A	xiv	and Steele.		
falls, RAINY RIVER.			Apatite mining by, Storrington		
Fort near, historical notes.	162	v	tp.	170	R C
formation.			Cowcaw, H.	167	iii
Composition of.	151	vii	Cowdry, N. H.	156	xii
Description of.	272 A	xiv	Cowen, F. M.	102	vii
Manitou lake.	84	vi		103	viii
Petrography of.	144, 145	xi	Cowham, W. F.	33	xi
Rainy Lake region :				149 A	xiv
folds in, diagram.	47, 48	iv	Cowie, J.	103	viii
Goose island, photo.	77	iv	Cowper tp., PARRY SOUND DIST.		
like hälleflinta.	82	v	Copper mining in, 1898.	88	vii
notes by Coleman.	45, 46	iv	1899.	100	ix
petrography.	81-83	iv	1902.	116	xii
Seine River dist.	74	vi	<i>See also</i> Beatty and Wil-		
lake, ONTARIO CO.			cox mine.		
Limestone on.	89 B	xiii	Gold mining in, 1898.	88	vii
Wolfram from.	233	vii	Cox, E. Strachan		
Wolframite from.	212	ix	Gold mining by, Michipicoten		
Coughlin, R.	115	ix	div.	103	viii
	140	x	Part owner, Ophir gold mine		
Coulouge lake, OTTAWA RIVER.			(Alg.)	90	ix
Marine fossils on.	216	x	Thomas		
Coulthard, R. W.			Data supplied by, re drilling at		
Reference to surveys by, Abitibi			Guelph.	151, 152	xii
river.	202, 205 A	xiv	Notes by, on well sunk at St.		
Work by, 1898.	121, 135	viii	Marys.	123 B	xiii
Council Bluffs, POTTIOWATTAMIE CO.,			Eckley B.	41	i
IOWA.					
Brick paving at.	113	iii			

	Page.	Vol.		Page.	Vol.
Cozens, Joseph			Craig Mining Co.		
Antimony found by, Garden river.	30	R C	Capital and date of charter.....	25 A	xiv
Granite location of, near C. Gar-			Work by, 1904.....	76 A	xiv
gantua.....	67	iii	1905.....	89 A	xv
Copper mine of, Michipicoten is-			tp., ALG.		
land :—			Galena in.....	92	i
emptied, 1898.....	143	viii	Craigmont, RAGLAN TP., RENFREW		
idle, 1894.....	239	iv	CO.		
notes.....	60	R C	Corundum at, works.....	19 A	xv
ref. to.....	39	103	photo.....	84 A	xvi
Surveys by, Galbraith tp., re. to.	40	iii	<i>See also</i> Canada Corundum Co.		
Work by, 1898, ref. to.....	160	xii	Crystalline limestone near, photo.	88 A	xvi
Crab apples.			Minerals collected at.....	43 A	xv
Rainy river, attempt to grow....	165	v	Crain, George		
lake, ANSTRUTHER TP., PETERBO-			Brick works of, Beamsville, notes		
ROUGH CO.			and photos.....	8, 78 B	xv
Pegmatite dikes near.....	215	viii	Cramahe tp., NORTHUMBERLAND CO.		
Crackerjack Gold Mg. Co.			Beach in. <i>See</i> Colborne.		
Capital and date of charter.....	9	ix	Cramp, Charles D.	23	xii
Work by, 1899.....	63	ix	William	23	xii
Cracknel, A. B.	102	vii	Steel Co.		
	103	viii	Analysis of lithographic stone		
Craddock, Ross S.			from quarry of.....	110 B	xiii
Gold mining by, near Missinaibi.	72	xi	Capital and officers of.....	23	xii
Cradle creek, MAGPIE RIVER, L. SU-			Furnace of, description.....	23, 24	xii
PERIOR.			Iron mining by, Lavant tp.....	262	xi
Minor refs. to.....	294, 295 A	xiv	Cranage, George	359	R C
Rocks on.....	344 A	xiv	Thomas	359	R C
gneiss agglomerate, photo.	345 A	xiv	Cranberry.		
Craig, B. A. C.			Abitibi dist.....	241, 253 A	xiv
<i>See also</i> Craig corundum mine.			Black and Blanche rivers.....	188	xii
Agreement by, with Govt. for cor-			Larder lake.....	220	xi
undum lands.....	249	viii	Michipicoten div.....	189	vii
	25	x	Mattagami valley.....	191 A	xiv
Director, Canada Corundum Co.	20	ix	Rainy Lake dist.....	96	iv
	130	x	high-bush		
Notes by, on producing alumi-			Atikokan river.....	144	v
nium.....	19 A	xiii	Mattagami valley.....	150 A	xv
John (MINER)	31	vii		150 A	xv
John (M. P. P.)	212	viii	Montreal river, L. Superior.....	200	viii
W. Dixon			iron mine, N. CAROLINA.		
Analysis by, of limestone, Tay tp.	110 B	xiii	Treatment of ore at.....	328, 339	xii
iron ores, Mayo tp.	97 A	xv	lake, N. CAROLINA. See Cran-		
W. J.	99	viii	berry iron mine		
	88	ix	Crane, Walter		
	251, 255	xi	Magnetic permeability of metals		
and Hamilton pyrites claim,			worked out by.....	324	xii
CREIGHTON TP., ALG.			Hot blast applied by, to making		
Notes on, by Fraleck.....	180 A	xvi	of pig iron.....	366	R C
corundum mine, RAGLAN TP.,			white		
RENFREW CO.			Abitibi dist.....	243 A	xiv
Mining class at, 1901..	62	xi	<i>Craniella logani.</i>		
1905.....	42 A	xv	Ottawa.....	225	x
Notes on, 1901.....	37, 294	xi	Crank, Orson	236, 239	v
1902.....	37, 135	xii	Crannel, L.	52	viii
Photos of.....	288, 289	xi		21	ix
gold mine, TUDOR TP., HAST-			Cranston, J. and G.	118 B	xv
INGS CO.			<i>Cratagus coccinea. See</i> Hawthorn.		
Accident at.....	30	vii	<i>" crus-galli.</i>		
Depth of, 1901.....	198	xi	Abitibi dist.....	242 A	xiv
Minor ref. to.....	111	R C	Crawford, A. A.	99 A	xvi
	4 A	xv	Horace		
Notes on, 1898.....	92	vii	Gold prospecting by, Anzhekum-		
1903.....	93 A	xiii	ming lake.....	85	vi
1904.....	76 A	xiv	President, Rand Gold Mg. Co. ..	124	vii
1905.....	89 A	xv	<i>See also</i> Crawford gold mine.		
Producing, 1905.....	4, 88 A	xv	Middleton		
1906.....	6 A	xvi	Belmont gold mine worked by.	47, 48	iii

	Page.	Vol.		Page	Vol.
Crawford Bros.			Creighton mine, SNIDER TP., ALG.		
Brick making by, Hamilton.....	29	xii	Accidents in, 1901.....	51	xi
	106 B	xv	1902.....44, 45, 48	xii	
gold mine, ANZHEKUMMING			1904.....	28 A	xiv
LAKE, R. R. D.			1905.....	30 A	xv
Fissure vein in.....	116	vi	Copper in, proportion	280	xii
Rocks of, diorite.....	39	iv		137, 152, 155 c	xiv
milling process	224	i	Discovery of	284	xii
See also Crawford, Middleton				134, 135, 169 c	xiv
sand pit, HAMILTON.			Fault hill S. of, photo.....	13 c	xiv
Section of,.....	228 A	xiii	Fluorite crystals in.....	284	xii
tp., NIP.			Flux for, from Frood mine.....	138 c	xiv
Peat in, analysis.....	128 A	xv	Gold in, percentage of.....	153 c	xiv
Soil and timber in.....120, 136, 141 A	xv		Hypersthene in.....	18 c	xiv
Crayons.			Idle, 1893.....	3	iv
Talc for.....	101	iii	Mining class at, 1904.....	41 A	xiv
Cray-fish lake, MICHIPICOTEN DIV.			Nickel in and near.....	3 c	xiv
	292, 344 A	xiv	mining, 1901.....	21	xi
Crayfish river, DOG RIVER, L. SUPE-			percentage	280	xii
RIVER.				137, 152 c	xiv
Character of.....	292 A	xiv	Notes on, by Blue	45-47	iii
Drainage area of.....	285 A	xiv	Coleman.....33-36 c	xiv	
Rocks on and near.....	314, 348 A	xiv	1892... ..	9, 236	ii
Crean Hill mine. See Krean Hill			1894... ..	233	iv
mine.			1899... ..	99, 100	ix
Creasor, A. D.	141 A	xiv	1901... ..	64, 279, 280	xi
Credit Forks, CALEDON TP., PEEL CO.			1902... ..	120, 243, 244	xii
Building-stone at	43, 73, 74, 79	R C	1903... ..	85, 86 A	xiii
quarrying, limestone....110, 111	ix		1904... ..	69, 70 A	xiv
sandstone.....	96	i	1905... ..	11, 64 A	xv
Clay at.....	78, 79	R C	1906... ..	63, 64 A	xvi
Saugeen	167	i	Open pit of, photo.....	34 c	xiv
Celestite at.....	196	ix	plan.....	35 c	xiv
Escarpment at, section of	73	R C	Ores of, quality.....	6 A	xiii
Forks Mfg. and Mfg. Co.				6, 11 A	xiv
Capital and date of charter.....	7	vi	won by quarrying.....	7 A	xiii
	8	vii	silica required for fluxing. 66 A	xvi	
Work by, 1899.....	110, 111	ix	Orthoclase crystals in.....	284	xii
Forks Quarry Co. See Credit			Output of, capabilities.....	9 A	xv
Valley Quarry Co.			largest in world	145 c	xiv
river, PEEL CO.			1902.....	17	xii
Cambro-Silurian on	39 B	xiii	1904.....	10 A	xiv
Celestite from valley of.....	190	ii		139 c	xiv
Hudson River formation on....	126 B	xiii	to 1904.....	156 c	xiv
Iroquois beach crossing.....	229 A	xiii	1905.....	12 A	xv
Limestone on	95 B	xiii	1906.....	14 A	xvi
quarrying.....	111	ix	Pentlandite in	281	xii
Sandstone on, quarrying.....	99	i		16, 159 c	xiv
Shales of, notes on.....	7 B	xv	Photos of.....	272, 273	xi
Water-power on.....	13 Bull.	iii		240, 241, 272, 273	xii
Valley Quarry Co.	28	xii		70 A	xiv
Crediton, STEPHEN TP., HURON CO.				34, 113 c	xiv
Brick-yards at.....	71 B	xv	Plan of.....	243	xii
analysis of clay.....	14, 17 B	xv	Platinum metals in.....	153 c	xiv
photos	46, 50 B	xv	Railway to.....	136 c	xiv
Cree Indians.			Rocks in and near	244, 245	xii
Condition of, 1903	179 A	xiii	breccia, photo.....	12 c	xiv
Creelman, Frank.	21	x	diabase.....	297	xii
tp., NIP.				43, 85, 125, 126 c	xiv
Map of.....	321	xii	faulting of.....	37 c	xiv
Creeper, brown			gabbro.....	294	xii
Abitibi dist.....	243 A	xiv	glaciated.....	101 c	xiv
Creighton, A. H.			gneiss.....	293	xii
Gold mining by, Manitou Lake				81, 123 c	xiv
dist.....	63	ix	gossan.....	163 c	xiv
Walter	39, 41 A	xiii	granite	83 c	xiv
			Laurentian.....	10 c	xiv
			marginal deposits	20 c	xiv

	Page.	Vol.		Page.	Vol.
Creighton mine.—Con.			Cretzchmann, Edward	58	xii
Rocks in and near.— <i>Con.</i>			Creusot, Le, SAÔNE-ET-LOIRE, FRANCE.		
nickel-bearing.....	11	c xiv	Foundry at, notes on.....	176	c xiv
norite.....	36, 40	c xiv	molybdenum used in.....	46	xi
analysis.....	116, 117	c xiv	Crieff, PERTSHIRE, SCOTLAND	218	i
petrography.....	111-114	c xiv	Crimea, The, RUSSIA.		
Silver in, percentage of.....	153	c xiv	War in, affects price of farm pro-		
Sulphides in ".....	151	c xiv	duce.....	326	R C
Gold Mining Co.			Crinoids.		
<i>See also</i> Creighton mine.			Abitibi river.....	187	viii
Capital and date of charter.....	8	vii	Port Colborne, near.....	36	xi
Work by, Creighton tp.....	45, 46	iii	Thedford.....	69	B xiii
tp., ALGOMA DIST.				8, 75	B xv
Clay plain in.....	93	c xiv		51	ix
Copper in.....	433	R C	Crocker, W. H.		
Galena in.....	92	i	cape, BRUCE CO.		
argenteriferous.....	29	R C	Hudson River formation at.....	35	B xiii
Gold in.....	59, 92,	i	Croesus Mining Co.		
mining, 1892.....	236	ii	Capital and date of charter.....	29	A xvi
1894.....	233	iv	Croft, E.	109	xii
1895.....	261	v	Mr.		
Iron pyrites in.....	93	c xiv	Analysis by, of water from		
notes by Fraser....	180	A xvi	London and Tilsonburg.....	60, 62	i
Lake Superior Power Co. work-			tp., P. S. D.		
ing in.....	17, 19	xii	Limestone in.....	94	B xiii
Nickel mining in.....	94	vii	Croker-Parks Oil Co.		
<i>See also</i> Gertrude nickel m.			Capital and date of charter.....	8	xii
Rocks in, greenstone.....	75	i	Cronan, James	70	A xiii
nickeliferous, notes by				26, 27	A xiv
Coleman.....	37-39	c xiv	Cronk, Coleman	54	A xiii
norite.....	242	xii	Cronmiller, Henry		
32, 33, 81.....	32, 33, 81	c xiv	Boring by, for oil, Port Colborne.	129	i
Silver in.....	29, 59	R C	Cronstedt—?		
Waterpower in.....	10	A xiv	Nickel discovered by.....	163	c xiv
	13	A xv	Crooked lake, MICHIPICOTEN DIV.,		
<i>See also</i> Macpherson falls.			ALG.		
Zinc-blende in.....	92	i	Gold reported on.....	188	vii
Crepidophyllum archiasi			-pine lake, ATIKOKAN RIVER,		
Anderdon tp.....	124	xi	R. R. D.		
Kwataboahagan river.....	181	A xiii	Description of, by Blue.....	140	v
<i>colligatum.</i>			Gold mining near.....	57	A xvi
Cayuga, N. tp.....	146	xii	Minor ref. to.....	73	v
Villanova.....	143	xii	rapid, ABITIBI RIVER.		
Crescent gold mine, NEAR MALONE,			Country near, character.....	201	A xiv
MARMORA TP.			river, DINORWIC LAKE, R.R. D.		
Idle, 1894.....	236	iv	Navigation on, difficult.....	121	vii
Inspector's report on, 1891.....	233	i	Crooks tp., TH. B. D.		
1892.....	238	ii	Amygdaloidal rock in.....	147, 179	ix
Mill at, photo.....	52	iii	Copper mine in, notes by Cole-		
Notes on, by Blue.....	52, 53	iii	man.....	146	ix
Gold Mg. Co.			Crookston, HUNTINGTON TP., HAST-		
<i>See also</i> Crescent gold mine.			INGS CO.		
Iron mining by, Marmora tp....	237	i	Cement mill at, projected.....	17	x
Testing mispickel ore.....	263	v	Limestone (and marble) at :—		
Nickel Mining Co.			analysis.....	61	B xiii
Capital and date of charter.....	8	vii	character.....	24	B xiii
Steel Works, PITTSBURG.			for power-plant at Niagara Falls.	4	B xiii
Analysis by, of graphite, Broug-			quarried.....	80	R C
ham tp.....	24	x		59	B xiii
Steel output of, 1893.....	118	ii	1897.....	99	vii
Wages paid by, statistics.....	370	R C	1898.....	48, 289	viii
Cressey, E. W.	65	xii	Marl from, analysis.....	66	B xiii
	48	A xiii	Crookston, POLK CO., MINN.	166	v
Cressy, MARYSBURG TP., PRINCE			Point Ann Co.		
EDWARD CO.			Officers of, work by, 1897.....	99	vii
Terrace near.....	240	A xiii	Crosby iron mine. See Bygrove		
Cretaceous system.			iron mine.		
Definition of.....	531	R C	lake, N. CROSBY TP., LEEDS CO.		
			Iron ore on.....	49	ii

	Page.	Vol.		Page.	Vol.
Crosby tps., LEEDS CO.			Cross lake, NIP.—Con.		
Apatite in.....	172	R C	Iron near.....	201	x
.....	194	ix	pyrites.....	149 A xvi	
mining.....	250	ii	Jaspilite near.....	175	x
Barytes in.....	53	R C	mine, MADOC TP., HASTINGS CO.		
Chondrodite in.....	196	ix	Erythrite in.....	198	ix
Iron ore in, analysis.....	50	ii	-portage (OR RAVEN-ROCK)	60 B xiv	
.....	201	ix	lake, NIP. AND QUE.		
exhibited in Chicago.....	81	ii	Description of, by Miller....	218, 219	xi
London.....	33	ii	Rocks in, petrographical notes.		
magnetite.....	346	R C	.....	228, 229	xi
.....	34, 46	ii			
.....	202	ix	Crosted Mining Co.		
mining.....	137	R C	Capital and date of charter.....	8	vii
.....	34, 44, 45	ii	Croton, WESTCHESTER CO., N. Y.		
<i>See also</i> Bygrove iron m.			Iron mining in.....	237	i
notes.....	44, 50	ii	Treatment of ore.....	339	xii
titiferous.....	141	xi	Crotty, P. J.....	90	xi
<i>See also</i> Spectacle lake.			Crouch lake, LOUGHBOROUGH TP.,		
Limestone in, crystalline.....	72 B xiii		FRONTENAC CO.		
Mica in.....	150	R C	Rocks in vicinity of.....	288	xi
Molybdenite in.....	205	ix	Croucher, F. W.....	174	v
Molybdenum in.....	232	vii	Crow.		
Orthoclase in.....	205	ix	Abitibi dist.....	126 A xiii	
Cross—?			Corbeau pt., L. Superior.....	128	viii
President, Montreal Mg. Co.....	64	iii	Timagami Lake dist.....	58	R C
A. D.....	103	vii	Crown Corundum and Mica Co.		
James W.....	85, 86, 189	v	Award to, Pan American Exhibi-		
.....	110, 138, 142, 145, 150	vi	tion.....	80, 87	xi
Whitman.....	156, 157	vii	Incorporation and capital of....	9	x
.....	190	ix	Objects and officers.....	26	x
and Foster.....	251	ii	Crow bay, CROW RIVER, HASTINGS CO.		
"Cross anticlinals."			Fossiliferous limestone near...88, 89 B xiii		
Notes on, by Lesley.....	161	i	lake, BOBS LAKE, LANARK CO.		
inlet, L. OF THE WOODS.			Corundum near.....	227	viii
Notes on, by Willmott.....	118	vii	Crow lake, BEDFORD AND OSO TPS.,		
Porphyritic schist from, petro-			FRONTENAC CO.		
graphy.....	146	vii	Apatite mining suspended.....	251	ii
lake, COLEMAN TP., NIP.			Iron ore on.....	46	ii
Calcite from, analysis.....	23 B xiv		lake, BELMONT AND MARMORA		
Rocks on, analyses.....	50, 51 B xiv		TPS., PETERBORO AND HAST-		
basalt.....	39, 50 B xiv		INGS COS.		
breccia.....	8 A xv		Epsomite on.....	198	ix
diabase.....	27, 41 B xiv		Iron ore on.....	17, 37, 38, 42	ii
Silver veins on.....	26, 28 B xiv		Lithographic stone on, analysis.		
mining.....	80 A xv		.....	60, 61 B xiii	
lake, HEADWATERS OF MATTA-			notes.....	183, 184	ii
GAMI RIVER, ALG. <i>See</i> Kape-			.....	137, 138	iii
michekama lake.			lake, E OF SABASKONG LAKE, L.		
lake, MICHIPICOTEN DIV., ALG.			OF THE WOODS. <i>See</i> Kakagi		
Iron formation near.....	204 A xv		lake.		
lake, MOSS TP., TH. B. D.			landing, STONY LAKE, PETERBORO		
Notes on, by Blue.....	120	v	CO.		
Portages north of.....	125	v	Black River formation at.....	210	viii
Road near, description.....	12	iv	river, HASTINGS CO.		
Rocks on.....	76	v	Blast furnace on, 1820.....	321	R C
lake, N. E. OF WABIGOON, R.			<i>See also</i> Marmora tp.		
R. D.			Lithographic stone on.....	138	iii
Rocks on.....	62, 84	iv	Section on.....	59, 60 B xiii	
lake, OLDEN TP., FRONTENAC			Trenton formation on.....	88 B xiii	
CO.			Waterpower on.....	56	iii
Iron ore near.....	37	ii	Rock channel, L. OF THE		
lake, TIMAGAMI RESERVE, NIP.			WOODS.....	186	v
Copper on.....	56	R C	Rock island, L. OF THE Woods.	186	v
Galena on.....	56	R C	Crowhurst Bros.		
.....	24, 25 B xiv		Brick-yard of, Port Hope.....	62 B xv	
assay.....	180	x	Crowland Natural Gas Co.		
auriferous.....	101 A xiii		Capital and date of charter.....	37 A xiii	
Gold near.....	26, 57	R C			

	Page.	Vol.
Crowland tp., WELLAND CO.		
Natural gas in.....	91 A	xiv
log of boring.....	108 A	xv
Peat in. <i>See</i> Welland.	104 A	xiv
Crown Lake Silver Mg. Co.		
Capital and date of charter.....	8	vii
Mining Co.		
Capital and date of charter.....	29 A	xvi
pt., N. Y.		
Eupyrchroite at	441	R C
Point gold mine, BAG BAY, L.		
OF THE WOODS.		
Notes on, 1899.....	59	ix
1900.....	79	x
Photos.....	64, 65	ix
Sold to Black Cat Mg. Co.....	61 A	xiii
Point Mining Co.		
Capital and date of charter	9	ix
officers.	59	ix
Merged in Black Cat Mg. Co.....	61 A	xiii
<i>See also</i> Crown Point g. m.		
Point silver mine, LYBSTER		
TP., PORT ARTHUR DIST.		
Capital for, from U.S.....	199	R C
Idle, 1891.....	229	i
1892.....	240	ii
Notes on, by Montgomery	201	R C
Silver of, in Animikie.....	225	i
Reef vein, SULTANA GOLD MINE,		
L. OF THE WOODS.		
Notes on.....	179	v
Photo of.....	128, 129	v
Crow's Nest Pass Coal Co.		
Capital and date of charter.....	11	xi
Crozier tp., R. R. D.		
Muskeg in.....	165	v
Cruikshank —? (1774)	209	v
Cruse Bros.		
Brick yard of, notes.....	2, 70, B	xv
Cryderman nickel mine, GARSON		
TP., NIP.		
Rocks at and near.....	61, 115 C	xiv
norite.....	112 C	xiv
Sand and gravel east of.....	256	xii
Cryolite.		
Description of.....	531	R C
Hardness and specific gravity of.	202	vi
Cryptograms.		
Abitibi dist.....	243 A	xiv
Crysler, FINCH TP., STORMONT CO.		
Gravel deposits near.....	218	x
Limestone at, fossiliferous.....	40 B	xiii
Trenton.....	48, 111 B	xiii
Crystal (s).		
Exhibit of, in World's Fair. .	186, 187	iii
Pyrargyrite, Cobalt.....	14 B	xiv
Smaltite, Cobalt.....	21 B	xiv
Systems of.....	200	vi
Crystal Beach, BERTIE TP., WELLAND		
CO.		
Natural gas supply of.....	135	i
21, 91 A		xiv
gold mine, BOLAND LAKE,		
RATHBUN TP., NIP.		
Diabase near.....	149	vii
Granite in.....	141	vii
notes.....	150	vii

	Page.	Vol.
Crystal gold mine.—Con.		
Notes on, 1895.....	262	v
1896.....	57, 267, 269	vi
1897.....	86, 138, 139	vii
Photos of.....	124, 125	vii
Gold Mining Co.		
Assays made for.....	214	v
Capital of.....	8	vii
and officers.....	262	v
Work by, 1896.....	57	vi
Crystalline limestone. <i>See</i> LIMESTONE, CRYSTALLINE		
Crystallites (FORMATION).		
Anderdon tp.....	124	xi
Cuba.		
Iron mines of, ref. to.....	237	i
Cucumbers.		
Fort Matachewan.....	240 A	xiv
Moose Factory.....	107	iv
Culbert, D. S.	140	x
73		xi
65		xii
M. T.		
Analysis by, of rock from Creighton mine.....	112, 117 C	xiv
Manager, O'Brien silver mine..	80 A	xv
Notes by, on :		
iron belt W. of Hutton tp.	222 A	xiii
rocks in Norman and Capreol tps.....	202 A	xiii
73, 74 C		xiv
Pyrite crystals found by, Blue lake, Sudbury dist.....	281	xii
Work by, 1902.....	235	xii
1903.....	192, 216 A	xiii
1 C		xiv
S.	103	viii
115		ix
140		x
Culbute island, OTTAWA RIVER.	104 B	xiii
Cullasagee creek, NEAR FRANKLIN, N. CAROLINA.		
Corundum mining on.....	38	xi
Cullen, Patrick	51, 52, 57	xi
Culligan, P.	29, 37	ix
Cullis, Samuel	36	iii
Cumberland, CUMBERLAND CO., W. VA.		
Bricks of, tests on.....	130	iii
Paving-clay from, analysis.....	120	iii
co., ENGLAND.		
Iron ore of, character.....	133	R C
royalties.....	22, 27, 30	i
Spanish ores used with.....	121	ii
tp., RUSSELL CO.		
Limestone in.....	108 B	xiii
Trenton.....	98 B	xiii
Peat bog in	190	i
197		ii
Swamp in.....	108 B	xiii
Cummings, A. D.		
Gold mining by, L. Nipissing....	237	ii
Uriah		
Concrete system of, description.	179, 180 A	xiv
Notes by, on cements.....	106, 107	i
Cummins, E.	103	viii

	Page.	Vol.		Page.	Vol.
Cuprite (RED COPPER ORE).			Cyanite or Kyanite.		
Hardness of.....	202	vi	Apatite regions.....	188	ii
Lake Superior.....	197	ix	Description.....	228	vi
Prospecting for, hints on.....	456	R C	Kaladar tp.....	237	vii
Specific gravity of.....	202	vi		201	xi
Curran, J. D.			Occurrences.....	200	ix
Gold mining by, Eagle lake.....	96	x	Summit creek, Kootenay lake,		
Currant, red			B. C.....	237	vii
Abitibi dist.....	199, 253	A xiv	Wanapitei station.....	237	vii
	442	B xiv	Cyanogen.		
Current river, NEAR PORT ARTHUR,			Discovery of.....	142	iv
TH. B. D.			<i>Cyathophyllidæ.</i>		
Photos of.....	157, 165	A xv	Paris, Ont., near.....	91	B xiii
Rocks on.....	149	ix	Woodstock.....	148	xii
Striæ on, direction.....	178	ix	<i>Cyathophyllum.</i>		
Water-power plant on.....	13	A xv	Abitibi river.....	187, 188	viii
Currie, Capt.			Anderdon tp.....	127	xi
Gold mining by, near Wawa. 103,	194	vii	" <i>exiguum.</i>		
Rev. Hector.....	156	xii	Anderdon tp.....	125	xi
J. A.....	23	xii	Kwataboahagan river.....	181	A xiii
Curry, J. Walter	73	A xiii	Port Colborne, near.....	35	xi
William			" <i>halli.</i>		
Brick-yard of, Sandwich.....	102	B xv	Cayuga, N. tp.....	146	xii
Curtin, F.			Hagersville.....	145	xii
Brick-yard of, Lindsay.....	102	B xv	Kwataboahagan river.....	181	A xiii
Curtis, Matthew	61	R C	Port Colborne (near).....	35	xi
W. H.			Thedford.....	154	xii
Boring by, for oil, Brantford....	112	A xv	Walpole and Townsend tps....	143	xii
Bros.			" <i>tennuiseptatum.</i>		
Brick-yard of, Peterboro:			Thedford.....	154	xii
analysis of clay.....	15	B xv	" <i>zenkeri.</i>		
notes and photo.....	94, 95	B xv	Anderdon tp... ..	125	xi
producing, 1902.....	29	xii	Cyclone.		
tp., ALG.....	166	xii	See also Storms.		
Curtiss, General James E.	68	viii	Merriton.....	17	viii
Cusack, M.	103	vii	<i>Cyclopterus lumpus.</i>		
Cushing lake, MICHIPICOTEN DIV.,			Greens creek, near Ottawa.....	224	x
ALG.			<i>Cyclotrypa borealis.</i>		
Rocks near.....	325	A xiv	Kwataboahagan river.....	185	A xiii
chert.....	314	A xiv	photo of section.....	192, 193	A xiii
Cushman —?	79	A xiv	" <i>collina.</i>		
	40, 91	A xv	Hamilton formation.....	185	A xiii
	78	A xvi	" <i>communis.</i>		
Custom duties. See Tariffs.			Hamilton formation.....	185	A xiii
mills.			<i>Cyclas similis.</i>		
Colorado, notes by Blue.....	34	iii	Saugeen clay.....	26	B xv
Kenora " ".....	31, 34	iii	<i>Cylichna.</i>		
Larder lake, suggested.....	217	A xvi	Ogdensburg (near), N. Y.....	242	A xiii
Utility of.....	31	iii	" <i>alba</i> or <i>C. minuta.</i>		
	73	iv	Greens creek, near Ottawa.....	224	x
Cut worms.			<i>Cyperacæ.</i>		
Abitibi dist.....	129	A xiii	Ottawa (near).....	225	x
Cuthbert —?	196	vii	<i>Cypredium crecaule.</i>		
lake, MICHIPICOTEN DIV., ALG.			Abitibi dist.....	253	A xiv
Rocks on.....	160	ix	" <i>parviflorum.</i>		
Cuthbertson location. See Bruce			Abitibi dist.....	253	A xiv
Mines.			Cypress.		
Cutler, LEWIS TP., ALG.	63	A xiv	Kenora.....	170	v
Cutlery.			<i>Cypricardinia.</i>		
Canadian imports of, 1881-87..	250, 468	R C	Kwataboahagan river.....	188	A xiii
Statistics, 1881.....	116	ii	" <i>indenta.</i>		
Cuyahoga Silver Cobalt Mines.			Kwataboahagan river, photo of,		
Capital and date of charter.....	29	A xvi	in limestone.....	192, 193	A xiii
Cyanide plant.			<i>Cypripedium acaule. See Lady's slipper.</i>		
Atlas gold mine.....	93	A xiii	" <i>jubrum.</i>		
Deloro gold mine.....	143	vii	Moose River basin.....	177	A xiii
Mikado gold mine.....	66	viii	" <i>parviflorum.</i>		
Regina gold mine.....	51, 52, 92	vi	Abitibi dist.....	241	A xiv
	42, 43	vii	Mattagami valley.....	150	A xv
See also Sulman-Teed process.					

	Page.	Vol.		Page.	Vol.
<i>Cypripedium pubescens.</i>			D 248 gold loc., PASSAGE CHAN-		
Abitibi dist.....	241 A	xiv	NEL, L. OF THE WOODS.....	114	vii
Mattagami valley.....	150 A	xv	258 gold loc. See Crown Point		
<i>Cypripedium spectabile.</i>			mine.		
Abitibi dist.....	241 A	xiv	264 gold loc., SIOUX NARROWS,		
Cyr, Paul	33 A	xv	L. OF THE WOODS.		
Cyrette, Ambrose			Notes on, by Willmott.....	113	vii
Acknowledgments to.....	178	ii	397 gold loc. See Imperial		
.....	145, 146	ix	mine.		
Evidence by, before R. C. re:			410 gold loc. See Sirdar mine.		
Heron Bay locations.....	115	R C	560 gold loc. See Northern		
Prospector's rights.....	202	R C	Light Mines Co.		
Three A mine.....	313	R C	Dacey camp, HANMER TP., NIP.		
Silver discovered by, Silver			Gold placer mining at.....	257	vii
harbour.....	34	R C	Dacre iron mine, BROUGHAM TP.,		
See also Beck silver mine.			RENFREW CO.		
Cyrette silver mine. See Beck silver			Notes on, 1902.....	113, 114	xii
mine.			Dady, Timothy	31	vii
<i>Cyrtina hamiltonensis.</i>			Dahlgren, Gustavus	32, 33	vii
Anderdon tp.....	125	xi	Daillebout seig., JOLIETTE CO., QUE.		
Thedford.....	154	xii	Nickel and cobalt in.....	443	R C
.....	69 B	xiii	.....	59, 60 B	xiv
<i>Cyrtoceras.</i>			Dairy farm.		
St. Marys.....	152	xii	Wabigoon lake.....	118	iv
" ammon.			.....	207	v
Anderdon tp.....	127	xi	Daisies.		
<i>Cystiphyllum.</i>			Abitibi dist.....	253 A	xiv
Thedford.....	8, 75 B	xv	Daisy Petroleum Co.		
" americanum.			Capital and date of charter.....	8	xii
Port Colborne (near).....	35	xi	vein, FERGUSON GOLD MINE,		
" vesiculasum.			SHOAL LAKE, SEINE RIVER,		
Cayuga, N. tp.....	146	xii	R. R. D.....	5 Bull. i	
Port Colborne (near).....	35	xi	.....	80	vi
Thedford (near).....	154	xii	Dakota, U.S. See South Dakota.		
<i>Cystopteris bulbifera.</i>			Dal Elf river, SWEDEN.		
Mattagami valley.....	151 A	xv	Power from, for saw-mills... ..	483	R C
Czar Gold Mining Co.			Dalarne, SWEDEN. See Kopparberg.		
Capital and date of charter.....	8	vii	Dalcoath tin mine, CORNWALL, ENG-		
Czarina Gold Mines Co.			LAND.		
Capital and date of charter.....	11	xi	Notes on, by Thomas.....	34	i
			Originally mined for copper.....	173	i
D 14 gold loc., MANITOU LAKE, R.			Dale, F. M.	59 A	xiv
R. D.....	84	vi	J. K.	89 A	xv
58 gold loc. See Sweden Gold			R. W.		
Mg. Co.			Notes by, on Schools of Mines,		
138-140 gold locs., ANZHE-			Victoria, Australia.....	521	R C
KUMMING LAKE, R.R.D.....	84	vi	Dalecarlia prov., SWEDEN.		
145 gold loc., BEAR LAKE, L.			Peat in.....	219	ii
OF THE WOODS.....	99	vi	Dalhousie tp., LANARK CO.		
148 gold loc. See Mikado gold			Actinolite in.....	192	ix
mine.			Iron ore in.....	23	R C
177 gold loc., ELLS PEN., L.			hematite.....	46	ii
OF THE WOODS.....	102	vi	.....	199	ix
205 gold loc., SIOUX NARROWS,			martite.....	203	ix
L. OF THE WOODS.....	100	vi	mineral.....	137-139	R C
212, 216, 217, 229, 265 gold			early.....	44	ii
locs. See Cornucopia mine.			See also Playfair iron		
213, 214, 228 gold locs.,			mine.		
SHOAL LAKE, L. OF THE			Iron pyrites in.....	163 A	xvi
WOODS.			pyrrhotite.....	207	ix
Notes on, 1896.....	50, 51	vi	.....	200 A	xvi
219, 221, 222 gold locs. See			Raphilite in.....	208	ix
Tycoon mine.			iron mine. See Playfair iron		
224, 225 gold locs., REGINA			mine.		
BAY, L. OF THE WOODS.			<i>Dalmanella.</i>		
Notes on, by Willmott.....	113, 114	vii	Port Colborne (near).....	36	xi
233, 289 gold locs. See Bul-			<i>Dalmanites anchiops.</i>		
lion No. 1 gold mine.			Kwataboahagan river, notes by		
			Parks.....	190 A	xiii

	Page.	Vol.
<i>Dalmanites</i> (<i>Coronura</i>) <i>aspectans</i> .		
Anderdon tp.....	125	xi
“ <i>caudatus</i> .		
Thorold	117 B	xiii
“ <i>myrmecophorus</i> .		
Cayuga N. tp.....	146	xii
“ <i>stemmatus</i> .		
Kwataboahagan river....	190 A	xiii
Dalmer, H. D.		
Brick-yard of, Conestogo, notes.		
29, 104 B	xv	
Dalton, MICHIPICOTEN DIV., ALG.		
Minor reís. to.....	5, 7 Bull.	iii
	186	vii
Report on country between, and		
Goulais river.....	196-204	viii
Gold Mg. Co.		
Capital and date of charter.....	9	ix
tp., VICTORIA CO.		
Allanite in	193	ix
Daly, Dr. Reginald A.	159	vii
Damascus Gold Mg. Co.		
Capital and date of charter.....	37 A	xiii
Working Cameron Island mine..	47 A	xiv
Dana, Prof. J. D.		
Analysis by, of:—		
asbestos (average).....	97	iii
gersdorffite.....	233	i
nickeliferous pyrrhotites.....	163	ii
Asbestos defined by.....	93	iii
Lithographic-stone described by.	181	ii
Name Archæan proposed by.....	528	R C
Notes by, on:—		
blending of vein matter.....	439	R C
magnetite.....	472	R C
Views of, on origin of diamonds.	121	ix
Danaite.		
Cobalt in, percentage of.....	203	xi
Cobalt dist., Ont.....	101 A	xiii
Graham tp.....	197	ix
	60 B	xiv
Hastings dist., in mispickel.....	197	ix
Dance tp., R. R. D.		
Soil in, character.....	130-133 A	xiii
Trees in	124 A	xiii
Danchelle—?		
Peat-drying process of.....	196	i
Dandelion.		
Abitibi dist.....	253 A	xiv
Dandy gold mine, MICHIPICOTEN		
DIV., ALG.....	100	vii
Daniels, Freeman J.	128, 129	x
William.....	31	ix
Dannemora, UPSALA PROV., SWEDEN.		
Iron ore of.....	472-475	R C
character	479	R C
Daquam, TEMISCOUATA CO., QUE.		
Peat at	198	ii
Darby, Abraham		
Smelting process of (1730).		
xxi, 357, 358	R C	
Darcy, W.	40, 41 A	xiii
Dardanelles, SEA OF MARMORA.		
Historical notes.....	167	i
(LARDER LAKE) Gold Mines.		
Capital and date of charter.....	28 A	xvi
Dargavel tp., NIP.		
Soil and timber of.....	142 A	xv
Darius (KING)	166	i

	Page.	Vol.
Darling Road, CANBOROUGH TP.,		
HALDIMAND CO.		
Log of gas well near.....	105 A	xiv
tp., LANARK CO.		
Bournonite in.....	193	ii
	195	ix
Gossan from, analysis.....	186 A	xvi
Iron ore in, evidence before R.C.		
52, 137-142	R C	
exhibited at World's Fair.79-82	ii	
hematite.....	199	ix
specular.....	58	ii
limonite.....	201	ix
magnetite.....	202	ix
notes by Birkenbine.....	333	R C
Merritt.....	129	R C
Iron pyrites in.....	141	R C
	207	ix
	150 A	xvi
mining.....	153, 154 A	xvi
Limestone in.....	102 B	xiii
Serpentine in.....	83	R C
Darlington bay, L. OF THE WOODS.		
Notes on, by Bigsby and Blue...	171	v
tp., DURHAM CO.		
Limestone boulders in.....	40 B	xiii
Darragh, Ernest J.		
Acknowledgments to.....	40 A	xiv
Cobalt silver field discovered by.	7 A	xvi
See also McKinley-Darragh-Savage		
mines.		
Dartmoor, DEVONSHIRE, ENGLAND.		
Peat bogs of.....	207	ii
experiments at.....	207	ii
gas from.....	210	i
	209	ii
Datolite.		
Loughborough tp.....	194	ii
	197	ix
Daube, Oscar		
Ref. to paper by, on iron smelting.		
331, 342	xii	
Daubree, G. A.		
Notes by, on iron ores of Arendal.	472	R C
Daunais, Oliver		
Discoverer of Rabbit and Silver		
Mt. veins.....	35	B C
Gold mining by, L. of the Woods.		
105, 252	vi	
Wabigoon lake.		
See Wabigoon g. m.		
Owner of Nonesuch and Three		
Ladies mines.....	48	vi
Three Friends mine.....	49	vi
lake, SILVER MT., LYBSTER TP.,		
TH. B. D.		
Water from, for East End mine..	84	vii
Davenport, F.		
Brick-yard of, Orwell.....	62 B	xv
R. W.....	189	iv
Dayenport, YORK TP., YORK CO.		
Iroquois beach at	229 A	xiii
David, King	168	i
David Katossin's claims. See Kat-		
ossin iron claims.		

	Page.	Vol.
David lakes, E. BRANCH OF PUKAS-KWA RIVER, L. SUPERIOR.		
Iron mining near. <i>See</i> Katossin iron claims.		
Minor ref. to	284 A	xiv
Rocks near	354 A	xiv
iron-bearing	316 A	xiv
schists, notes on.....	306 A	xiv
Trees near.....	296 A	xiv
Davidson, George.....	224	i
John		
Gold mining by, Jackfish (near).	86	x
Michipicoten div.	103	vii
	103	viii
	115	ix
	140	x
	73	xi
	65	xii
	48 A	xiii
John I.....	78 A	xv
William.....	31	vii
Davies, E. H.		
Manager, Beatrice mine.....	249	ii
	190	iii
Notes by, on Copper Cliff mine.	69, 272	vi
	94	vii
Stobie mine	275	vi
William		
Notes by, on apatite mines, Perth dist.....	174	R C
	251	ii
Davis, A. L.....	22	ix
Prof. C. A.		
Visiting Ont. with British Ass'n.	144	vii
Work by, on marls of Michigan.	119, 120 A	xiv
Hon. E. J.		
Photo of, on lithographic stone, at Pan-American Exhibition..	88	xi
Transmittal letters to, and by :—		
1899 .....	.1, 3	ix
1900	4, 5	x
1901 .....	.1, 2	xi
1902 .....	.1, 2	xii
1903	ix, x A	xiii
H.....	104, 121 A	xiii
H. J.....	134	vii
Henry		
Manager, Copper Cliff mine.....	182	iii
	208, 211, 213, 240, 243	iv
	272	v
Evans mine.....	184	iii
	245	iv
Stobie mine.....	245	iv
	269	v
Ithel.....	30, 39 A	xv
J.....	140	x
	73	xi
	65	xii
	48 A	xiii
James	25	ix
	232	xi
Joseph.....	29	xii
	118 B	xv
R. K.....	519	R C
Tom	85	ix
W. H.....	251	ii
J. & Son. <i>See</i> Davis, Joseph		

	Page.	Vol.
Davis lake, ABITIBI DIST., NIP.		
Description of.....	111 A	xiii
Glacial striae on.....	115 A	xiii
Rocks on, dolerites	116, 117 A	xiii
syenite	119 A	xiii
nickel mine. <i>See</i> Sheppard nickel mine.		
pyrites mine, FRANKLIN CO., MASS.		
Minor ref. to	184 A	xvi
Notes on, by Rutledge.....	191, 192 A	xvi
pyrites mine, MADOC TP., HASTINGS CO.....	161 A	xvi
rapid, MATTAGAMI RIVER, ALG.		
Country east of, description.....	146 A	xv
Laurentian rocks at	121, 134 A	xv
Silver Cobalt Mines, Ltd.		
Capital and date of charter	28 A	xvi
Sulphur Ore Co.		
Iron pyrites mining by, near Schreiber	78, 134	vii
tp., SUDBURY DIST., NIP.		
Copper prospecting in	98	ix
Mispickel in	106	xi
Davison, J. E.....	209	x
Davisville, TORONTO.		
Brick-yard at	110 B	xv
Pottery works at.....	29	xii
	118 B	xv
Davy, Sir Humphrey		
Reference to experiments by, on carbon and potassium.....	153	iv
Dawn tp., LAMBTON CO.		
Oil in.....	15	viii
boring for.....	19	vii
log	114 A	xiv
discovery	18	vii
production, 1900	17	x
Dawson, George.....	103	x
	149	xi
Dr. George M.		
Acknowledgments to	48	v
	6, 169	vi
	215	x
Notes by, on anthraxolite	2 Bull.	ii
References to surveys by :—		
British Columbia	160	vii
L. Superior	168	viii
Montana.....	157	vii
Views of, on :—		
Corniferous limestone of Anderton tp.....	126	xi
lacustrine deposits, R.R.d....	91	v
Mamainse copper deposits....	78-82	iii
metalliferous character of Huronian.....	249	v
Visit of, to L. of the Woods.....	172	v
Dr. J. W.		
Notes by, on Leda clay and Saxicava sand.....	32 B	xv
Views of, on origin of apatite.	438, 443	R C
Dawson, S. J.		
Evidence by, before R. C., re :—		
farm lands, Port Arthur dist ..	239	R C
forest fires.....	311	R C
free trade.....	232	R C
gold, L. of the Woods	118	R C
limestone, Manitoulin island..	84	R C

	Page.	Vol.		Page.	Vol.
Dawson, S. J.—Con.			Deacon, T. R.—Con.		
Evidence by, before R.C., <i>re</i> :— <i>Con.</i>			Manager, Mikado g. m.....	77, 93	x
minerals, L. Superior dist.....	61	R C		65	xi
silver, Silver islet.....	197	R C	Ontaric Gold Conces-		
technical education.....	424	R C	sions.....	86, 87	viii
Prospecting by, on Silver Centre			Dead Broke gold mine, RED-ROCK		
mine.....	229	i	ISLAND, L. OF THE WOODS.		
Sir William			Notes on, 1892.....	232	ii
Acknowledgments to.....	224	x	lake, AN ARM OF WINDIGOKAN		
Principal, McGill University....	217	i	LAKE, TH. B. D.		
Ref. to "Canadian Ice Age" of.	215	x	Character of.....	138 A	xvi
Views of, regarding:—			river, MICHIPICOTEN RIVER,		
ancient sea-level in Eastern			ALG.		
Canada.....	223	x	Formation of, by H.B.C.....	177 A	xv
marine deposits of Eastern On-			Deadman portage, SHOAL LAKE, L.		
tario.....	226	x	OF THE WOODS.....	56	vii
Dawson, HANMER TP., NIP.			Dean, Alfred.....	30	vii
Country N. of, character.....	216 A	xiii	Judge		
worth prospecting.....	17	xi	Marble quarrying by, Somerville		
Gold prospecting near.....	151	x	tp.....	114 B	xiii
Gravel beds near.....	73 C	xiv	and Williams gold mine, MAR-		
altitude.....	158	x	MORA TP., HASTINGS CO.		
	103 C	xiv	Mispickel in.....	103	xi
Minor ref. to.....	178	x	Position of.....	28	R C
Muskegs and sand-plains near..	202 A	xiii	Lake (LATE THOMPSON),		
Rocks near.....	204 A	xiii	THOMPSON TP., ALG.		
diabase.....	72 C	xiv	Copper mining near.....	69 A	xv
Route from, to Wanapitei lake,				15, 41, 70 A	xvi
description.....	185	x	Deane, Alfred.....	216	i
cottage, STURGEON LAKE, TH.			De Beers diamond mine, KIMBER-		
B. D.			LEY, S. AFRICA.		
Photo of lake from.....	55 A	xiv	Notes on.....	122	ix
gold mine, STURGEON LAKE,			Wetherill separator used at....	326	xii
TH. B. D.			De Brughat, Challeton		
Notes on, 1902.....	84, 85	xii	Peat drying process of, notes.	194, 195	i
(OR WABI) pt., L. TIMISKAMING,			Decatur, MACON CO., ILL.		
Rocks at.....	87 B	xiii	Brick pavements of.....	112	iii
route, The, TH. B. AND R. R.			Decca gold mine, NEAR MINE CENTRE,		
DISTS.			R. R. D.		
Notes on, by Blue.....	115	v	Depth of, 1899.....	35	ix
historical.....	134	v	Notes on, 1898.....	83, 273, 278	viii
tp., MANITOULIN ISLAND, ALG.			1899.....	68, 69	ix
Limestone in. <i>See</i> Meldrum Bay.			Work suspended, 1900.....	84, 94	x
Day, David T.....	90	xi	Gold Mining Co.		
John F.....	40	iii	Capital and date of charter.....	9	viii
V. P.			Work by, 1898.....	83	viii
Notes by, on Godfrey mica mine.	245	i	Deception lake, McTAVISH TP., TH.		
Days Mills, DAY TP., ALG.			B. D.		
Boulder-clay near.....	156	viii	Iron ore from, analysis.....	168 A	xv
Dayton, ALG.			Rocks on ..	169 A	xv
Rocks near.....	163	viii	iron bearing.....	259 A	xiv
DB 13, 14, 16 copper locs., PARRY			DeCew, J.		
SD., P. S. D.....	168	ix	Remarks by, on limestone boul-		
gold vein, NEAR MOORE BAY,			ders, Norfolk co.....	88 B	xiii
L. OF THE WOODS.....	21, 22	iii	Decew quarry, NEAR GILL, HALDI-		
Deacon, C. B.....	80	viii	MAND CO.		
T. R.			Notes on; analysis of stone from.	56 B	xiii
Director, Mikado gold mine.....	52	ix	DeCewsville, N. CAYUGA TP., HALDI-		
Gold mining by, L. of the Woods.	93, 96	vi	MAND CO.		
Engledue con-			Meteorite at, notes on.....	203	ix
cessions.....	55	vii	Decon, Thomas.....	25	viii
Helldiver bay ..	58	ix	Deep Oil and Gas Co.		
Regina bay.....	113	vii	Capital and date of charter.....	24 A	xiii
Independent gold mine examined			Deep Rock Cobalt Silver Mines.		
by.....	76	ix	Capital and date of charter.....	28 A	xvi
Magnetite noted by, Halkirk tp.	75	iv	Deer.		
			Michipicoten div.....	200 A	xv

	Page.	Vol.		Page.	Vol.
Deer, red			DeKalb, Courtenay—Con.		
Abitibi River region.....	193	viii	Report by, on Laboratory of Kings-		
	127 A	xiii	ton Mining School.....	262, 263	vii
	242, 253 A	xiv	Retirement of.....	6, 7	xi
Blanche River region.....	224	xi	Work by, 1900.....	6	x
Hudson Bay slope, scarce.....	178	vi	junction, NEW YORK STATE.		
L. Huron slope.....	170	vi	Pyrites from near.....	152, 184 A	xvi
Mattagami valley.....	131 A	xv	cost of mining.....	153 A	xvi
Michipicoten div.....	297 A	xiv	Railway from, to Stella mine....	191 A	xvi
Mississagi River dist.....	172	xii	De la Beche, Sir Henry T.	220	i
Moose River basin.....	178 A	xiii	De La Mar, Col. J. R.		
Nipigon Lake dist.....	139 A	xvi	Director, International Nickel Co.	22	xi
Niven's base line and south of, Alg.	142	ix	Minor refs. to.....	199 A	xiii
Rainy Lake dist.....	97	iv		67, 172 C	xiv
Timagami Lake dist.....	58	R C	Del Monte springs, PRESTON, WATER-		
flies.			LOO CO.....	61	i
Abitibi dist.....	128 A	xiii	Delaware, DELAWARE TP., MIDDLE-		
Lake, MICH.			SEX CO.		
Record of iron furnace at.....	339	R C	Brick-yard at.....	79 B	xv
lake, BELMONT TP., PETERBORO			and Mount Brydges Oil and		
CO.			Gas Co.		
See also Belmont g. m.			Capital and date of charter.....	8	vii
Diorite on.....	193	xi	Delbert lake, E. OF MATTAGAMI		
Falls on, photo.....	112, 113	xii	RIVER, ALG.		
power from, for gold			Beaver dams near.....	127 A	xiii
milling.....	27	xi	Description of.....	105 A	xiii
	56	xii	Rocks on and near, dolerite....	116 A	xiii
	14 A	xiv	porphyry... ..	120 A	xiii
Iron ore on.....	42	ii	strike.....	121 A	xiii
lake, CARDIFF TP., HALIBURTON			Soil from, character.....	130 A	xiii
CO. *			Trees on.....	122 A	xiii
Nepheline-syenite near.....	217	viii	Delesse—?		
Lake station, CARDIFF TP.,			Analysis by, of gypsum, Haldi-		
HALIBURTON CO.			mand co.....	56 B	xiii
Syenite west of, carrying corun-			Delessite.		
dum.....	216	viii	L. Superior, in amygdaloids....	197	ix
Lake dist., EAST OF WHITEFISH			Delft, HOLLAND.		
BAY, L. OF THE WOODS. See			Polytechnic school at.....	500	R C
Sturgeon Lake.			Deloro, MARMORA TP., HASTINGS CO.		
river, DEER LAKE, PETERBORO'			Arsenic at.....	38	iv
CO.				205	ix
Specular iron ore on.....	39	ii	for plate-glass.....	32 B	xiv
Waterpower on.....	92	ix	plant.....	174	i
	188	xi		14, 36	xii
river, PARRY SD. DIST.				31 B	xiv
Limestone on.....	94 B	xiii	bought by Deloro		
containing scapolite..	170	ix	Mg. Co.....	12 A	xvi
river, SEINE RIVER. See Eye			closed, 1890.....	18 A	xiii
river.			1905.....	23 A	xv
Trail Consolidated Mg. Co.			for Cobalt ores....	73 B	xiv
Capital and date of charter.....	11	xi	proposal to re-open.	25 A	xvi
De Haas, N. G.	140	x	Gold at.....	38	iv
	73	xi	exhibited at World's Fair..	191	ii
Dehydrating agent.			mining. See Deloro gold		
Quicklime as.....	5 B	xiii	mine.		
DeKalb, Courtenay			gold mine, DELORO, HASTINGS		
Experiments by, on corundum,			CO.		
ref. to.....	239	vii	Accidents at, 1897.....	31	vii
	233, 239, 247	viii	1902.....	43	xii
Manual of Explosives by, ref. to.	25	ix	Amalgamation with Atlas Co.		
	49	x	proposed.....	93 A	xiii
Paper by, on Corundum....	240-250	vii	Arsenic in, composition.....	112	xi
Report by, as Inspector of			description of process.	106-108	xi
Mines:—			prevention of poison		
1898.....	28-48	viii	by.....	120, 121	xi
1899.....	89-111	ix	Boring in, with diamond drill.	52, 56	x
1900.....	113-135	x	Closed down.....	18 A	xiii
accidents.....	46-49	x		22 A	xiv
1901 ".....	48-57	xi			

	Page.	Vol.		Page.	Vol.
Deloro gold mine.—Con.			Denison falls, DOG RIVER, L. SUPERIOR.		
Cyaniding at, ref. to.....	143	vii	Nomenclature of.....	141	viii
Depth of, 1901.....	197	xi	Photo of.....	168, 169	viii
Fire at, destroys mill....	vi Pt. iii, Vol.	vii	Schist conglomerate at.....	146, 166	viii
	21	viii	Water-power on.....	299 A	xiv
Geological features of:			Mining Co.		
notes by Coleman.....	59, 60	vi	Capital and date of charter.....	8	vii
Miller.....	206	xi	tp., SUDBURY DIST.		
rocks.....	194	xi	Brick-yard in. <i>See</i> Whitefish.		
diorite, changed to schist,			Copper in.....		R C
diagram.....	189	xi	chalcopyrite.....	91	i
Notes on, 1895.....	264	v		197	ix
1896.....	58, 59	vi	evidence before R. C.		
1897.....	90-92	vii	104-106, 425		R C
1898.....	39, 40	viii	notes by Merritt.....	88, 89	R C
1899.....	90, 91	ix	Galena in.....	92	i
1900.....	115, 116	x	Gersdorffite in.....	213	vi
1901...62, 63, 195, 196,			analysis.....	233	i
232, 233		xi	Gold in.....	59, 106, 112, 205	R C
1902.....	108, 109	xii		92	i
by Blue.....	22	viii	discovery.....	425, 426	R C
Kirkegaard and			mode of occurrence...108, 113		R C
Wright.....	103, 104	xi	notes by Bell.....	26	R C
Operating, 1897.....	234	vii	Mine land speculation in...309, 310		R C
Re-opening of, expected.....	74 A	xvi	Morenosite in.....	205	ix
Summer mining class at.....	56	xii	Nickel in, arsenate.....	205	ix
Mining and Reduction Co.			mining.....	64 A	xv
Cobalt ores to be worked by....	25 A	xvi	<i>See also</i> Kream Hill m.		
Gold-arsenic plant bought by...12 A		xvi	Victoria m.		
Delta, BASTARD TP., LEEDS CO.			niccolite.....	205	ix
Lime-kilns at.....	72 B	xiii	prospecting.....	232	i
photo.....	64 B	xiii		249	ii
DeMarr concrete system.			Platinum in.....	113	R C
Description of.....	180 A	xiv		179	ii
Demars gold mine, MARMORA TP.,			sperrylite.....	181	R C
HASTINGS CO.				141	vi
Ore of, arsenical.....	53	iii		209	ix
Demme, Rodolph A.	159	v	Polydymite in.....	207	ix
	81	vi	Rocks in.....	242	xii
Demmier Bros.	119	ii	diorite.....	434	R C
Demorest, W. <i>See</i> next ref.			greenstone.....	75	i
and Sylvester.			nickel-bearing eruptive.		
Acknowledgments to.....	131	ix	24, 25, 30 c		xiv
	192 A	xiii	norite..	31, 32 c	xiv
Work by, for R. McConnell....	73 A	xiii	olivine-diabase.....	127 c	xiv
Superior copper			Silver in.....	203	R C
mine.....	274	xi	Tin in.....	211	ix
Denbigh, DENBIGH TP., ADDINGTON			Denmark, Dr.	28	viii
CO.			Denmark.		
Boulders in, of nepheline-syenite.	224	viii	Peat in, notes on...211, 212		ii
tp., ADDINGTON CO.				198	xii
Gold in.....	199	ix	lake, L. OF THE WOODS.		
Graphite in.....	199	ix	Gold mining on.....	74	x
<i>See also</i> Allanhurst graphite m.			<i>See also</i> Reliance mine.		
Rocks near.....	224	viii	<i>Dentalina.</i>		
Sulphur in.....	210	ix	Ottawa.....	225	x
<i>Dendragapus canadensis. See</i> Grouse,			Dentinger, A.	103	vii
Canada			Deodorizers.		
<i>Dendroica aestiva. See</i> Warbler, yellow			Moss litter.....	190, 191	vi
" <i>blackburniae. See</i> Warbler, pro-			<i>See also</i> Moss litter.		
thonotary			Depew, Chauncey	100	iii
Denholm tp., WRIGHT CO., QUE.			Depot harbour, PARRY ISLAND,		
Apatite deposits in.....	436	R C	GEORGIAN BAY.		
with feldspar and quartzite...437		R C	Rocks on, limestone.....	166	ix
Denis, T. D.	270 A	xiv		95 B	xiii
Denison, C. L.	76 A	xv	petrography.....	181	ix
(LONGWELL) claim, COBALT.			Depuis, L. N.	97	x
Cobalt in, analysis.....	23 B	xiv	Derby, A. O.	230	vii
Strike of veins in.....	37 B	xiv			

	Page.	Vol.
Derby tp., GREY CO.		
Niagara formation in	50 B	xiii
Dereham tp., OXFORD CO.		
Artesian wells in.	62	i
Brick-yard in. <i>See</i> Brownsville.		
Oil in.	91 B	xiii
Deroche and Burrows.	112	R C
tp., ALG.		
Iron in.	315	xii
hematite	139	xi
mining. <i>See</i> Breitung Iron Co.		
Derricks for oil-wells.	102 A	xvi
Derry A. H.	100	xii
George		
Gold mining by, L. of the Woods. 42		ix
Ira	47, 50	x
P. A.		
Foreman, Superior copper mine. 274		xi
	100	xii
	41	xiv
Wawa G. M. Co.	101, 103	viii
Licence to	115	ix
	140	-x
Manager, Superior copper mine. 45 A		xv
Desbarats, JOHNSTON TP., ALG.		
Glacial striae north of, direction. 211		x
Iron prospecting at.	25, 97	vii
Nickel-copper mining near. <i>See</i> Stobie copper mine.		
Mining Co.		
Capital and date of charter.	11	xi
Deseronto, TYENDINAGA TP., HASTINGS CO.		
Altitude of.	222	x
Black River formation at.	27 B	xiii
Blast furnace at.	22	xii
	10 A	xiii
	17 A	xvi
notes, 1898.	6	viii
1899.	15, 102	ix
1900.	27	x
operating.	25	xi
photos.	Frontis. Vol.	viii
	32, 33	ix
proposed	234	vii
quality of ore used at.	24	xi
Charcoal ovens at.	88, 481	R C
	3 B	xiii
Terra-cotta plant at, burnt.	77	R C
	120 B	xv
Iron Co.		
Bounty payments to, 1900	32	x
Minor ref. to.	288	viii
Desert lake, ABERDEEN TP., ALG.		
Iron ore on, hematite.	315	xii
mining	143	R C
	64	ii
lake, FRONTENAC CO.		
Fahlband on	163 A	xvi
Feldspar mining near.	26	x
	90 A	xiii
	8 A	xiv
	39, 40 A	xv
Lake Iron Co.		
Capital and date of charter.	8	vii
Desjardins canal, HAMILTON.		
Gravels of	236 A	xiii
Vertebrate remains in.	229 A	xiii

	Page.	Vol.
Desolation lake, MICHIPICOTEN DIV., ALG.		
Rocks east of.	344 A	xiv
Despair lake, W. OF RAINY LAKE, R. R. D.		
Rocks on, Keewatin.	60	iv
serpentine	50, 76, 93	iv
	209	ix
Determination of minerals.		
Hints on, by Miller and Goodwin.	203, 229	vi
<i>See also</i> Minerals.		
Detlor, (LATE L'AMABEL), DUNGANNON TP., HASTINGS CO.		
Iron mining near. <i>See</i> Mineral Range mine.		
Railway from, to Barry bay, suggested	78 A	xiv
Detroit, MICH.		
Blast furnaces at	xv	R C
notes on cost.	399	R C
Brick pavements in.	108	iii
Gas to, from Essex co.	123	i
	28	iv
	29	v
	19	vii
amount of	19	x
	42	xi
prohibited	106	ix
	41	xi
	39	xii
	91, 108 A	xiv
Sulphuric acid works at.	184 A	xvi
and Algoma Silver Mg. Co.		
Capital and date of charter.	28 A	xvi
and Cobalt Development Co.		
Capital and date of charter.	29 A	xvi
and Dominion Oil Co.		
Capital and date of charter.	26 A	xv
Oil well of, Essex co.	116 A	xiv
and Hastings Mining and Milling Co.		
Capital and date of charter.	8	vii
and Kent County Oil and Gas Co.		
Capital and date of charter.	26 A	xv
and Leamington Oil Co.		
Capital and date of charter.	26 A	xv
Wells of, number	116 A	xiv
and Parry Sd. Mg. Co.		
Capital and date of charter.	25 A	xiv
Mining and Development Co.		
Work by, 1906.	43, 59 A	xvi
Oil Exchange.		
Capital and date of charter.	26 A	xv
Union Iron Co.		
Iron production of, cost	338	R C
Record of furnaces.	339	R C
river, L. ERIE.		
Corniferous formation on	127	xi
Erie clay east of.	10 B	xv
Helderberg formation on	123	xi
Island park in, notes by Blue.	107	v
Detweiler, D. B.	141	x
N. B.	141	x
Deux Rivieres, CLARA TP., NIP.		
Trenton formation near.	84 B	xiii

	Page.	Vol.		Page.	Vol.
Devil Cascade, MANITOU SOUND,			Diabase.—<i>Con.</i>		
RAINY LAKE.			Cobalt dist., description.....	41 B	xiv
Height of.....	83	vi	notes.....	48-50 B	xiv
Laurentian gneiss at.....	52	v	silver ores in....	28, 29 B	xiv
Devils gap, L. OF THE WOODS.....	13, 14	iii	Definition and description.....	532	R C
180, 181, 186		v	Great Huronian Belt, notes by		
93		vi	Bell.....	76, 77	i
hill, TIMAGAMI LAKE, NIP.			Larder Lake dist:		
Rocks near.....	174	x	contact with conglomerate....	213 A	xvi
Devil island, BLANCHE RIVER. <i>See</i>			Post Huronian.....	219 A	xvi
Diable island.			Mattagami river, petrographical		
lake, FRONTENAC CO.			notes.....	133 A	xv
Iron pyrites on.....	207	ix	Missinaibi, notes by Coleman...	149	vii
150 A		xvi	Nipigon Lake region:—		
Mica mining on.....	245	i	character.....	115 A	xvi
103 A		xv	horizontal sheets.....	107 A	xvi
lake, PETERBORO CO.			Nipigon lake, photos... 110,	134 A	xvi
Iron mining on.....	214	viii	river, photos.....	137 A	xvi
rapid, MISSINAIBI RIVER, ALG..	195	viii	Notes on, by Miller.....	235	vi
rock, L TIMISKAMING, NIP.			Parry Sound dist.....	180	ix
Huronian south of.....	41 B	xiv	Sand Bay coppermine.....	170	viii
Dewille, St. Clair <i>See</i> Saint Claire			Sturgeon pt., L. Superior, sketch.	145	ix
Dewille.			Sturgeon river, L. Nipigon, pot		
Devine, Thomas.....	145	vi	holes in.....	137 A	xvi
Devlin tp., R. R. D.....	165, 167	v	Sudbury dist. :—		
Devon Great Consols Mine, BLANCH			analysis, photos and notes by		
DOWN, CORNWALL, ENG.			Coleman.....	84, 85, 125, 126	C xiv
History of.....	61	iii	notes by Bell.....	434, 435	R C
Devonian.			petrography.....	297, 298	xii
Area of, in Ont.....	182 A	xvi	Thunder bay, petrography....	178	ix
Abitibi river.....	186	viii	Timagami dist.....	164	x
photo.....	160, 161 A	xiii	Wabigoon Lake dist.....	183	vii
Building-stone from.....	185	ii	dolerite		
Definition of.....	532	R C	Mattagami river, petrography...	141 A	xiii
Divisions of, in Ont.....	2	R C	olivine		
96 A		xiv	Port Arthur dist.....	127 C	xiv
James bay.....	194	viii	Port Coldwell, petrography....	148	vii
Lakes Erie and Huron, notes			Quinze river, Que.....	229	xi
by Miller.....	25 A	xiii	Sudbury dist., notes by Coleman.		
Missinaibi river.....	194	viii	126, 127 C		xiv
Named after Devon co., Eng....	46	R C	petrography..	213, 214 A	xiii
Notes on, by Bell.....	46	R C	Wanapitei Lake region, petro-		
Blue.....	169, 170	i	graphy.....	149	vii
Rio Tinto, Spain.....	192 A	xvi	Windigokan Lake dist.....	147 A	xvi
Thedford, analysis.....	9 B	xv	porphyrite		
for bricks.....	8 B	xv	Lake Nipigon.....	135 A	xvi
photo.....	11 B	xv	Nettagami river, petrography...	141 A	xiii
Thickness of, in Ont.....	196	v	hill, NEAR GODON LAKE, MICH-		
Devonshire, Duke of.....	247	i	IPICOTEN DIV., ALG.		
Devonshire, ENGLAND.			Iron formation at base of.....	331 A	xiv
Arsenic mining in.....	101, 110	xi	mt., COLEMAN TP., NIP.		
production.....	111	xi	Diabase of, character.....	27 B	xiv
Devonian system named after...	46	R C	Silver mining on.....	86 A	xv
Tin and-copper in.....	173	i	pt., GIROUX LAKE, NIP.	52 A	xvi
Dewar, J. D.			Diable island, BLANCHE RIVER, L.		
Evidence by, before R. C. <i>re</i> :—			TIMISKAMING.		
fire-clay, Toronto.....	54	R C	Maple sugar bush on.....	215	xi
gold, L. of the Woods.....	114	R C	Diallage.		
Minor ref. to.....	25	R C	Definition of.....	532	R C
Dewey, F. P.			Parham, near.....	197	ix
Assays by, of Sudbury ore..	179, 180	ii	Diamond, William <i>See</i> Sophie gold		
Dexter, J. B.	103	viii	mine.		
Diabase.			Diamonds.		
Abitibi region, petrographical			Are there any in Ontario? paper		
notes.....	210 A	xiv	by Blue.....	118-124	ix
Animikie iron range, analysis...	171 A	xv	Composition of.....	447	R C
Bruce Mines, for road-making...	126	viii	Description and mode of occur-		
petrography.....	169	viii	rence.....	218	vi
Canoe-canal lake, petrography..	229	xi	For drilling, notes on.....	222, 223	v

	Page.	Vol.		Page.	Vol.
Diamonds. — Con.			Dickson, Hugh	25	ix
Hardness of.....	448, 535	R C	J. L.	141	x
	201	vi		73	xi
	214	vii		65	xii
Hudson Bay slope, originally in?	8	A xvi		48	A xiii
Origin of.....	121, 122	ix	Dido, F.	24	ix
Price of, 1893.....	170	iv	<i>Didymia.</i>		
Rainy Lake dist., possibility of finding.....	73, 74	iv	Lyndoch tp.....	236	vii
Specific gravity of.....	202	vi	<i>Diervilla trifida.</i>		
Diamond drills.			Abitibi Lake dist.....	241	A xiv
Advantages, principles, cost and use of.....	221-225	v	Mattagami valley.....	150	A xv
Desirability of Govt. exploiting with.....	425	R C	Dietsch kilns.		
	166	iii	Notes on, and diagrams.....	128, 129	A xiv
Govt. work with. <i>See</i> Government Diamond drill.			Digby tp., VICTORIA CO.		
Use of, in foreign countries..	164-166	iii	Magnetite in.....	202	ix
gold mine, MADOC TP. <i>See</i> SOPHIE GOLD MINE.			Dikes.		
Jubilee gold mine, WAWA LAKE, MICHIPICOTEN DIV., ALG.			Barrie tp., notes on.....	219	v
Notes on, 1898.....	146	viii	Difference between, and veins...	251	v
Jubilee Mineral Development Co.			Jackfish bay, in granite, notes... sketch..	104	v
Capital and date of character....	8	vii		84	v
Park Mineral Water Co.			Larder Lake dist.....	205, 220	A xvi
Capital and date of charter.....	8	vii	Laurentian system.....	249	v
Diarsenide of nickel. <i>See</i> Chloanthite.			Michipicoten div., diorite.....	7 Bull.	iii
<i>Dicerea divaricata. <i>See</i> Maple borer.</i>			Mine Centre, near, notes on....	279	viii
Dick?			Mode of formation.....	230	vi
Experiments made by, on nickel steel.....	139	ii	Nipigon Lake dist.....	131, 132	A xvi
Banning & Co.	169, 170	v	cutting diabase.....	134	A xvi
Dickens, Charles			Ottawa co., Que., phosphate dist.	437	R C
Lakes in Rainy Lake dist. named after characters of.....	62	iv	Sudbury dist.		
	88	vi	diabase, notes by Bell... Coleman. 84, 85	434, 435	R C
Dickerson, E. N.			granite, notes and photos. 124, 125		C xiv
Work by, on acetylene gas.....	163	iv	Dillinger Huttenwerke Co.		
Dickie, John			Armour plates of.....	152	iii
Notes by, on Elgin silver mine.	445	R C	Dillon, J.	103	vii
Dickinson, James M.			Joseph	55	xii
Gold mining by, near Wawa. 184, 194		vii	Dilworth Porter & Co.	119	ii
Joseph H.	143	ii	Dimension stone. <i>See</i> Building stone.		
Dickson, A. A.			Dingler, Andrew	26, 28	A xiv
Notes by, on peat manufacture..	209, 210	ii	Dingley tariff bill.		
Peat processes of :			Affecting nickel.....	28	vii
for fuel.....	200, 201, 221, 222	i	extract from evidence	42-45	vi
	206, 207	ii	Dingman, Archibald W.	152	R C
diagram.....	220, 221	xii	N. J.	103	vii
notes.....	32	A xiii		101, 103	viii
photos.....	208	xii	Dinnick, C. R. S.		
ref. to.....	200	xii	Manager, Ontario Paving Brick Co.	16, 17	v
moss-litter.....	34	iv	Plant built by, for vitrified brick.	129	iii
President, Canadian Peat Fuel Co.....	190	vi	Dinorwic, R. R. D.		
C. W.	150	x	Gold mining near.....	124, 179	vii
Dr. C. W.			Route to, from Sandy lake.....	170	vii
Analysis by, pentlandite.....	159	c xiv	Soil near.....	175, 182	vii
Sperrylite found by, Sudbury dist.....	162	c xiv	(LITTLE WABIGOON) lake, R. D.		
Views of, on Sudbury deposits..	17	c xiv	Gold mining on.....	97	x
Work by, on Sudbury ores.....	282	xii	Minor ref. to.....	121	vii
	ref. to...16, 21	c xiv	Rocks on; wild rice on.....	67	iv
G. H.	150	x	Diodorus (GEOGRAPHER)	166	i
8 M.I.			Dion, J. T. T.	103	vii
				73	xi
				65	xii
			Dion, Mary	115	ix
			Diopside.		
			Madawaska river, analysis.....	197	ix
			Diorite.		
			Abitibi region, petrography.....	119	A xiii
				211	A xiv

	Page.	Vol.
Diorite. — <i>Con.</i>		
Astron bay, L. of the Woods, petrography	145	vii
Belmont tp., containing gold....	47	iii
Description of.....	532	R C
	234	vi
Foley tp., petrographical notes..	99	iv
Madoc, petrographical notes....	207	xi
Metamorphism of, by water, dia- gram.....	189	xi
Michipicoten div., dikes.....	7	Bull. iii
Port Coldwell, analysis.....	148	vii
Sudbury dist., nickeliferous ores in.....	435	R C
Wabigoon Lake dist.....	183	vii
Diphyphyllidae.		
Paris, Ont. (near).....	91	B xiii
Diphyphyllum.		
Cayuga, N. tp.....	146	xii
" <i>archiasi.</i>		
Anderdon tp.....	125	xi
" <i>arundinaceum.</i>		
Kwataboahagan river.....	18	A xiii
" <i>simcoense.</i>		
Cayuga, N. tp....	146	xii
Hagersville.....	145	xii
Kwataboahagan river	181	A xiii
Port Colborne, near.....	35	xi
Rockford and Woodstock..	143, 148	xii
" <i>verneuillanum.</i>		
Cayuga, N. tp.....	146	xii
Hagersville.....	145	xii
Woodstock.....	148	xii
Disco, GREENLAND.		
Nickel in.....	151	C xiv
Discorbina.		
Ottawa	225	x
Diseases.		
Among Indians.....	178	A xiii
Dishane, Fred.	207	iv
Disher, B. M.	135	i
Disinfectants.		
Slaked lime for	5, 13	B xiii
Disley, Joseph	26	A xiv
Dismal Swamp, The, VIRGINIA AND N. CAROLINA.		
Southern limit of peat in U. S...	190	i
Disthene. <i>See</i> Cyanite.		
Distress river, PARRY SOUND DIST.		
Limestone on.....	94	B xiii
Divining rod.		
Coal reported to be found by ...	204	ii
Foolishness of	219	v
For gold, Jaffrey tp	7	Bull. i
	108	vi
Michipicoten div.....	80	xii
	80	xii
Dixon—?		
D J 2, 3 gold locs. <i>See</i> Manhattan Gold Mg. Co		
Dobbie, John		
Zinc mining by, near Chelmsford.	33	viii
Dobbyn, Richard	25	v
Dobie, James	203	R C
Thomas W.	233	ii
	27	iii
William C.		
Gold reported by, in Bruce mines.	37	iii

Dobson, Alexander*See also* Beaverton.

	Page.	Vol.
Peat bog of	204	xii
fuel made by.....	200	xii
	25	A xvi
plant, notes.....	23	ix
	29, 30	A xiii
and diagrams.		
210-217, 222, 223		xii
output, 1905	24	A xv
photos.....	208, 209	xii
President, Peat Machinery Sup- ply Co.....	225	xii
Dodd, E. H.	281	xi
	62, 77	xii
E. W.,	122	R C
Warren Ackerman	122	R C
Dodds, P. D. & Co.	122	xi
Dodge, John S.	75	ix
Doe, Dennis	204	iv
Dog lake, DOG RIVER, MICHIPICOTEN DIV.		
Altitude of.....	188, 190,	vii
Description of	187	vii
Fall from, to Manitowick lake...	189	vii
Gold mining on, 1897.....	136	vii
1898	101	vii
1901.....	72, 95	xi
<i>See also</i> Emily gold mine.		
H. B. C. post on.....	185	vii
Length of.....	7	Bull. iii
Low land near, altitude.....	9	Bull. iii
Minor ref. to	176	A xv
Morainic hills near.....	192	v xv
Quartz veins on	196	vii
Rocks on and near	250	v
	188, 197	vii
	177	A xvi
granites.....	203	vii
Huronian.....	18	R C
	124	iv
	253, 254	v
schists.....	202, 203	A xv
Route from, to Magpie river.	294, 295	A xiv
to, from Brunswick Post..	140	ix
Shape of	196	viii
Striae on	197	vii
lake, SHEBANDOWAN LAKE REG., TH. B. D.		
Forest fires near.....	205	v
Mineral region northeast of....	314	xii
lake, STORRINGTON TP., FRON- TENAC CO.		
Barite on.....	195	ix
Iron ore on	140	R C
mining. <i>See</i> Equitable mine.		
river, L. SUPERIOR.		
Beaches along	175, 176	ix
	288	A xiv
level of	154, 155	viii
Description of, by Coleman.....	133	viii
Fall of, from headwaters to L. Superior	286	A xiv
Falls on, photo	168, 169	viii
Indian camp near, photo	298	A xiv
Iron ore on, notes	256-258	viii
	160, 161	ix
	322, 323	A xiv
mining, 1900.....	139	x

	Page.	Vol.
Dog river.—<i>Con.</i>		
Jaspersy ores near mouth of.....	200	x
Notes on, by J. M. Bell.....	285	A xiv
Willmott.....	140, 141	viii
Rocks on and near:—		
agglomerates.....	342	A xiv
chert, pyritous.....	314	A xiv
conglomerate.....	146, 166	viii
	203	x
	162, 167	xi
	346	A xiv
greenstone.....	302	A xiv
Huronian.....	348	A xiv
phyllites.....	343-345	A xiv
notes.....	307	A xiv
Route from, to Frances mine.		
	289, 290	A xiv
Lake Michi-biju.		
	291, 292	A xiv
Sand-bar at mouth of, photo.	168, 169	viii
Striae on and near.....	288	A xiv
direction....	178, 179	ix
Whitefish in.....	297	A xiv
river, SHEBANDOWAN L A K E		
REG., TH. B. D.		
Forest fires near.....	205	v
Old trade route N. of.....	199, 200	v
River harbour, L. SUPERIOR.		
Agglomerates north of.....	342	A xiv
Phyllites on.....	307	A xiv
Route from, to L. Michi-biju....	292	A xiv
Dogden peat bog, GREENLAW, SCOT-		
LAND.....	187	i
Dog-fly lake, MANITOU LAKE DIST.,		
R. R. D.		
Rocks near.....	63	iv
Dog-paw rapid, WHITEFISH LAKE,		
MANITOU LAKE DIST., R. R. D.	59	viii
Doherty, Edward.....	66	A xv
R. J.....	103	vii
Doidge, Alfred E.....	80	viii
	51, 52	vii
Doig & Co.....	99	B xv
Dokis, Henry.....	200	A xiv
Dokis creek, ABITIBI DIST.		
Description of.....	200	A xiv
Soil from near, analysis.....	246	A xiv
clay loam.....	235	A xiv
peat.....	209	A xiv
	199	xii
Dolberg, R.....		
Dolerite.		
Abitibi dist., petrography..	116, 117	A xiii
Description of.....	532	R C
Dollar Bay, HOUGHTON CO., MICH.		
Copper smelter at.....	22	xi
Dollerie house, CRIEFF, SCOTLAND..	218	i
Dolliver, Jonathan S.....	42	vi
Dolly Varden siding, HALTON CO.		
Limestone quarry at, photo....	48, 49	B xiii
Dolomite.		
<i>See also</i> Pearl spar.		
Abitibi river.....	187	viii
Addington co., Sheffield tp.....	27, 62	B xiii
As a building-stone.....	135, 136	iii
As flux for iron ores.....	479	R C
Association of, with gypsum and		
salt.....	119, 120	R C
Black bay, L. Superior.....	100	i
	112	B xiii

Dolomite.—*Con.*

	Page.	Vol.
Brant co., Paris.....	15	B xiii
Carbon di-oxide made from.....	5	B xiii
Cockburn island.....	79	B xiii
Composition of.....	223	vi
Crystals of, occurrences.....	198	ix
Description of.....	532	R C
Determination of.....	205	vi
Essex co., Anderdon tp....	123, 124	xi
	41, 42	B xiii
Geneva lake.....	29	B xiii
Great Huronian belt, notes by		
Bell.....	81, 82	i
Grey co., Owen Sound.....	48	B xiii
Haldimand co.....	52-56	B xiii
Oneida.....	15	B xiii
Halton co., Limehouse, analysis.	58	B xiii
Nassagaweya tp.....	58	B xiii
Hastings co., associated with ac-		
tinolite.....	52	R C
Madoc tp., analysis.....	62	B xiii
gold in.....	28	R C
Lake of the Woods, gold in.....	105	vi
Lambton co., oil areas.....	153	R C
Lanark co.....	71	B xiii
Larder lake, photo.....	213, 215	A xvi
with gold..	207, 208, 221	A xvi
Lincoln co., Grimsby, analysis..	75	B xiii
Manitoulin island.....	76	B xiii
Pigeon lake, Montreal river....	82	B xiii
Pine lake, Kenogami river, petro-		
graphy.....	210	x
Renfrew co., McNab tp., analysis.	105	B xiii
Ross tp.....	103	B xiii
analysis.....	106	B xiii
Timagami lake, with quartz.....	169	x
Timiskaming lake.....	85	B xiii
Victoria co., Cobocok, analysis.	114	B xiii
Wanapitei river.....	83	B xiii
Welland co., Niagara Falls.....	194	ii
Thorold (near)....	117	B xiii
Wellington co.....	121	B xiii
Eramosa river.....	120	B xiii
Galt (near).....	115	B xiii
Puslinch tp., analysis.....	122	B xiii
Wentworth co., Ancaster, anal-		
ysis.....	125	B xiii
Hamilton.....	13	B xiii
Dolphin (FOSSIL). <i>See</i> <i>Beluga catodon</i>.		
Domanski, Isaac.....	25	ix
Domenizucci, Pietro.....	49, 57	xi
Domeykite (ARSENICAL COPPER).		
Michipicoten island.....	194	ii
	181	ix
Port Arthur dist.....	55, 58	B xiv
Silver islet.....	444	R C
	198	ix
Dominick, Gaudense.....	25	A xiv
Dominion Cement-Brick Co.		
Capital and date of charter.....	24	A xiv
Cobalt Mg. and Development		
Co.		
Capital and date of charter.....	29	A xvi
Gold Mg. and Reduction Co.		
<i>See also</i> Black Jack gold mine.		
Gold Hill.....		
Golden Gate.....		
Golden Slipper.....		

	Page.	Vol.
Dominion Gold Mg. and Reduction Co.—Con.		
Absorbed by Keenora Mg. and Milling Co.....	96	xii
Capital, officers and objects..	173, 174	v
Plant of, notes by Blue.....	187, 188	v
under option to Upton..	88	ix
Properties of, notes on.....	174, 176	v
Rabbit Mt. mine..	96	viii
	85	ix
Work by, 1896...47, 50, 107, 109,		
251, 252, 258, 259	vi	
1897.....	37, 111	vii
1898.....	98	viii
1900.....	89, 92	x
Improvement and Development Co.		
Capital and date of charter.....	26 A	xv
Formation of	86 A	xiv
Mica mining by, N. Burgess tp..	105 A	xv
	88 A	xvi
iron mine, MADOC TP., HASTINGS CO.		
Chert and hornblende banded in.	141	xi
Erythrite in	198	ix
	60 B	xiv
Smaltite in	209	ix
lake, W. OF L. OF BAYS, R.R.D.		
Laurentian near, in contact with granite.....	172	vii
Sand-bank on, curious..	173, 174	vii
Timber near.....	181	vii
Mineral Co.		
See also Blezard nickel mine. Worthington "		
Cobalt production of, 1893.....	3 A	xiii
Matte of, analysis	154	ii
Mines of, accidents at	167, 176	iii
gabbro in, petrography..	78	i
notes by Bell	433	RC
richer in depth.....	153	ii
Not included in International Nickel Co.....	22	xi
Smelting works erected by.....	435	RC
Work by, Sudbury dist.....	xxiii	RC
	247, 248	ii
	185	iii
Blezard mine..	254, 286	xii
	56, 142	c xiv
Natural Gas Co.		
Capital and date of charter	24 A	xiii
Operating in Attercliffe field..	91, 105 A	xiv
Towns supplied by, list of	25 A	xvi
Dundas and Hamilton..	106 A	xiv
Nickel Co.	26	vii
Oil Co.		
Capital and date of charter	5	xii
Peat Products.		
Capital and date of charter	5	xii
Peat bog of, Newington, notes on.	208, 209	xii
Plant of, 1902.....	223	xii
Portland Cement Co.		
Capital and date of charter.....	11	xi
Sewer Pipe Co.		
Operating.....	19 A	xvi
Works of, Swansea, notes and photo	117, 118 B	xv

	Page.	Vol.
Domnarfoet, near FALUN, SWEDEN.		
Iron smelting at	483, 484	RC
Don, YORK TP., YORK CO.		
Hudson River formation at	5 B	xv
analyses...	8 B	xv
river, L. ONTARIO.		
Beach on, Iroquois.....	230 A	xiii
Brick-clay on, analysis	127	iii
Frie.....	13 B	xv
notes by Gibson ..	126	iii
works on	104, 105	i
	127	iii
	111, 112 B	xv
Bridges across, stone for	80	RC
Hudson River shale on.....	177	i
Tufa beds in	126 B	xiii
Valley Pressed Brick Co.		
Brick-works of, analysis of clay..	8 B	xv
notes.....	29	xii
	111, 112 B	xv
paving brick...14, 15	vi	
Donald, Prof. J. T.		
Analyses and assays by, of:—		
bog-iron ores, Radnor Forges..	26	ii
graphite, Brougham tp.....	30	v
limestone, Renfrew	105 B	xiii
ore from Denison tp.....	105	RC
Gold mountain mine examined by	187	v
Notes by, on asbestos	95, 97	iii
Donaldson, W.		
Gypsum mining by. See Mount Healey.		
Doney, John.	212	iv
Donnegann lake, N. OF ONAPING LAKE, ALG.		
Gold on.....	187	x
Donnelly, J. P.	103	viii
John.....	46, 50	x
mica mine, N. BURGESS TP., LANARK CO.		
Notes on.....	130	xii
Producing, 1903.....	12 A	xiii
Donovan, H. A.	115	ix
J.....	141	x
	65	xii
	48 A	xiii
Doon, WATERLOO TP., WATERLOO CO.		
Onondaga formation at.....	115 B	xiii
Doran, John		
Discovery by, of oil, Dawn tp.,	18, 19	vii
William	174	iii
Dore conglomerate.		
Age, description and distribution of.....	155, 162-167	xi
Michipicoten div.....	300 A	xiv
distribution	343-346 A	xiv
photo	343 A	xiv
and petrography..	340-346 A	xiv
Position of, in Huronian.....	174 A	xv
lake, DORÉ RIVER, L. SUPERIOR.		
Granite and greenstone on, petrography.....	176, 178	xi
Length of.....	285 A	xiv
Rocks near	348 A	xiv
(or Pickerel) river, L. SUPERIOR.		
Canoe navigation on	285, 289 A	xiv
Coast from, to Gros Cap	153	xi

	Page.	Vol.		Page.	Vol.
Dore river.—Con.			Douglas pt., BRUCE CO.		
Copper mining on	206	vii	Rocks at and near	35, 66 B	xiii
Islands south of, composition...	144	viii	Douro tp., PETERBORO CO.		
Notes on, by Coleman	132	viii	Cement works in. <i>See</i> Lakefield.		
Rocks on and near	345 A	xiv	Limestone in	97 B	xiii
conglomerate	144, 146	viii	Marl in. <i>See</i> Buckley lake.		
183		ix	Dove lake, RENFREW CO., ONT.		
191, 203		x	Trenton formation on.	104 B	xiii
155, 162, 163-165, 180		xi	Dover tp., KENT CO.		
hornblende-schists	181	xi	Oil well in, log of	110, 111 A	xiv
Huronian	158	viii	Dowagiac, MICHIGAN.		
notes by Coleman ..	164-167	viii	Diamond found at	121	ix
Dorion Lead and Zinc Co.			Dowling, D. B.		
Capital and date of charter	24 A	xiv	Ref. to surveys by :—		
silver mine, DORION TP., TH.			Lac Seul region.	53, 54	v
B. D.			158		vii
Galena in	198	ix	Lake Nipigon	105 A	xvi
Sphalerite in	209	ix	tp., SUDBURY DIST., ALG.		
tp., TH. B. D.			Farm land in	105 C	xiv
Gold mining in. <i>See</i> Ogema g. m.			Rocks in, nickel eruptive ..	196, 198 A	xiii
Jasper and dolomite quarry in ..	100	i	68 C		xiv
Lead in	59 A	xiii	<i>See also</i> Onaping.		
mining, 1903	87 A	xiii	Windy lake.		
veins, notes by Bell	37, 38	R C	Downey, J.	59	ix
Limestone quarry in	112 B	xiii	L.	103	viii
Zinc in	59 A	xiii	115		ix
mining	11 A	xiii	141		x
Dorway, F. C.	65	xii	73		xi
Douai, DEPT. DU NORD, FRANCE.			48 A		xiii
School of mines at	498	R C	73		xi
Double portage, MISSINAIBI RIVER,			M.	30	v
ALG.	195	viii	mill, WELLAND CANAL.		
Doucet, Th.	210	ii	rapid, HUNGERFORD TP., HAST-		
Douglas, A.	177	vii	INGS CO.		
145, 146		viii	Gold at	54	iii
E. A.	115	ix	tp., PERTH CO.		
138, 141		x	Limestone quarry in. <i>See</i> Sclater, J.		
E. V.			Downing, H. F.		
Director, Algoma Steel Co.	98	xi	Gold mining by :—		
Licence to	115	ix	Coinstock g. m.	86	vii
Part owner, waterpower, Sault			for Toronto and Western		
Ste. Marie	6	ix	Dev. Co.	67	viii
President, Consolidated Lake Su-			Last Chance g. m.	269	vi
perior Co.	92	xi	Ophir g. m.	90	ix
J.	48	ix	Dowrie, R.	103	vii
J. W.			115		ix
Licence to	115	ix	Dowsley, G. W. O.	65	xii
73		xi	Doyle, Kate	73	xi
65		xii	65		xii
48 A		xiii	T. P.		
Manager, Kitchi-gammi g. m.	47 A	xiii	Gold prospecting by, Anzhekun-		
Manxman g. m.	64, 80	xii	minglake.	85	vi
James			Michipi-		
Copper smelting by, 1876	377	R C	coten div.	141	x
Lacey & Co.	84 A	xv	73		xi
Lord, OF HAWICK	38, 125	viii	48 A		xiii
P.	103	vii	and Co.		
115		ix	Silver mining by, Cobalt.	78 A	xv
S.	103	vii	Dragon=fly.		
co., OREGON.			Rainy River dist	97	iv
Garnierite in	214	vi	lake, NIPIGON LAKE REG., TH.		
Nickel ores in	146 C	xiv	B. DIST.		
Douglas, BROMLEY TP., RENFREW CO.			Rocks near	119 A	xvi
Trenton formation at	104 B	xiii	Drainville, Joseph.	30	vii
island, ALASKA.			Drake, Col.		
Treadwell gold mine on	27	R C	First gas well sunk by, Titusville,		
Mining Co.			U. S.	157	i
Capital and date of charter	29 A	xvi			

	Page.	Vol.		Page.	Vol.
Drake, Elias			Drummond, Thomas J.	17	ix
Copper mining by, Mississagi river.....	148	viii	30	x	
Death of.....	239	ii	(See also Drummond McCall & Co.)		
Owner, West End silver mine....	227	i	W. B.	63 A	xiii
"Drake" H. M. S.			McCall & Co.		
Mica boiler covering used in....	25	x	Canada Iron Furnace Co. organ- ized by.....	25	ii
Draper, F. E.	75	viii	Sales agent for Canada Iron Fur- nace Co.....	17	ix
Dreany, A.	103	vii	island, L. HURON, U. S.		
H.....	115	ix	Limestone from, analysis.....	13 B	xiii
	103	vii	Mines, Ltd.		
Dredging for gold.			Close corporation.....	13 A	xvi
Plant for, description.....	259	vii	Shipping, 1905.....	15 B	xvi
marl.			Working, 1906.....	8 A	xvi
Plant for, photo.....	153 A	xiv	silver mine, COLEMAN TP., ONT.		
Drew, T. F.			Notes on, 1905.....	81, 83 A	xv
Iron prospecting by, Ground-hog river.....	315, 317	xii	Photos of.....	82 A	xv
Mining in Michipicoten div.....	103	vii	Producing, 1905.....	7 A	xv
	103	viii	tp., LANARK CO.		
	115	ix	Bog iron ore in.....	137	R C
	141	x	Labradorite in.....	200	ix
Drew, MINTO TP., WELLINGTON CO.			Limestone in.....	46	ii
Brick yards in, notes on.....	105 B	xv	Peat bog in. See Perth.		
Drewry, George			Drummondville, GRANTHAM TP., DRUMMOND CO., QUE.		
Gold prospecting by, Camp bay.	102	vi	Blast furnace at.....	329	R C
Drift.			27-29	ii	
Notes on, by Bell.....	48-52	R C	Drury Nickel Co.		
Driftwood creek, MATTAGAMI RIVER, ALG.			Capital and date of charter.....	8	vii
Description of, by Kerr.....	122, 123 A	xv	Inez mine bought by.....	144 C	xiv
river near.....	121 A	xv	See also Trill Mining Co.		
Granite bosses east of.....	134 A	xv	Re-formed into Trill Mg. and Mfg. Co.....	276	vi
Timber on and near....	142, 145, 146 A	xv	tp., SUDBURY DIST., ALG.		
river, BLACK RIVER, ABITIBI RIVER.			Clay-slates in.....	73	i
Dimensions of ; driftwood on...	109 A	xiii	Cobalt in ores of.....	166	ii
Ducks on ; marshes on.....	124 A	xiii	Copper in.....	24, 106	R C
Notes on, by Parks.....	183	viii	Galena in.....	203	R C
Rocks on, dolerites.....	116 A	xiii	Gold mining in. See Dwyer g.m.		
porphyritic.....	120 A	xiii	Lepidomelane in.....	201	ix
Trees on.....	115, 124, 126 A	xiii	Morenosite in.....	205	ix
Drilling.			Nickel mining in. See Inez mine.		
Photo of hand contest in.....	96, 97	xii	Worthing- ton mine.		
Driver, J.	103	viii	Pentlandite in.....	206	ix
	115	ix	Polydymite in.....	207	ix
John			Rocks in, granite.....	69	i
Illness of.....	242	v	nickel-bearing.....	276	xii
Notes by, on iron-pyrites, Big river.....	255, 256	v	30 C	xiv	
	181 A	xvi	norite.....	242	xii
Work by, 1895.....	241, 243	v	"Dry bone." See Calamine.		
Drobiansky, URAL, RUSSIA.			Dry lake, HUNGERFORD TP., HAST- INGS CO.		
Iron smelting at.....	487	R C	Marl in.....	109	i
Drosera rotundifolia (FOSSIL).			137 A	xiv	
Ottawa near.....	225	x	Dryberry lake, L. OF THE WOODS REG., R. R. D.		
Drugs.			Gold near.....	103	vi
Bismuth for.....	234	vii	river, DRYBERRY LAKE, R.R.D.		
Drummond, George E.	17	ix	Rocks near mouth of.....	103	vi
	30	x	Dryden, VAN HORNE TP., R. R. D.		
(See also Drummond, McCall & Co.)			Agricultural land near.....	175, 182	vii
H. A.	116	ix	Dam at, built by Govt.....	121, 125	vii
John J.			Gold near, mining, 1898.....	77	vii
Manager, Canada Iron Furnace Co.....	25	ii	1906.....	59 A	xvi
	30	x	51 A	xiv	
Midland iron works planned by.	17	ix	prospecting, 1904.....	51 A	xiv

	Page.	Vol.		Page.	Vol.
Dryden, VAN HORNE TP.—Con.			Duffett —?	172	ii
Gold near, prospecting, 1905....	55 A	xv	Dufferin, Marquis of		
Iron ore near.....	309	xii	Consular report by, on peat		
See also below—Rocks.			industry in France.....	212	ii
Pulp mill at.	14 A	xv	co.		
Rocks near, iron bearing....	136, 137	xi	Boring in, for coal.	43, 45 A	xiii
	220 A	xiii	Limestone in, notes by Miller...	39 B	xiii
petrographical notes.	145	xi	Cobalt Silver Mg. Co.		
falls, WANAPITEI RIVER, NIP.			Capital and date of charter.....	29 A	xvi
Waterpower at.....	13 A	xv	iron mine, MARMORA TP., HAST-		
tp., NIP.			INGS CO.		
Fibrolite in.....	198	ix	Idle, 1884-91.....	237	i
Waterpower in.....	10 A	xiv	Notes on, 1900.....	128, 129	x
<i>Dryobates pubescens.</i> See Woodpecker,			Dufresne, Louis	47	x
downy			Dugal, Pete	38 A	xiv
" <i>villosus.</i> See Woodpecker,			Dulhut, Daniel		
hairy.			Historical notes.....	196-198	v
Dryweed island, RAINY LAKE, MINN.			Du Lievre river. See Lièvre river.		
Gold mining on.....	63	v	Dulmage, George		
Dualin.			Gold prospecting by, L. of the		
Sulphuric acid in manufacture of.	193 A	xvi	Woods.....	21	iii
Use of, in Sudbury dist.....	169	iii	Manager, Gold Hill mine.....	232	ii
Dublin, HUBBERT TP., PERTH CO.			Duluth, MINN.		
Boring at, for salt.....	54	R C	Animikie series near.....	66	R C
Dublin, IRELAND.			Copper in coarse gabbro of.....	87	iii
Apatite shipments to, 1884-85 ..	443	R C	Nomenclature	197	v
Dubray, A.	103	vii	Railway from, through R. R. d.,		
Dubroy, James	236, 239	v	suggested.....	241, 242	R C
Dubuque.			Trade of	241	R C
Brick paving of.....	113	iii	Cobalt Mining Co.		
Duchon, Edward	30	vii	Capital and date of charter.....	28 A	xvi
Duck.			Mining Co.		
Abitibi region.....	189	xii	Capital and date of charter.....	9	viii
	126 A	xiii	Work by, Seine River dist.....	76	ix
Driftwood river..	124 A	xiii		105	x
Hinterland, The.....	133	iv	Dumfries, VIRGINIA.		
Michipicoten div.....	200 A	xv	Pyrates mining near.....	192 A	xvi
Mississagi river.....	172	xii	N. tp., WATERLOO CO.		
Moss tp.....	121	v	Guelph formation in.....	33, 115 B	xiii
Night-hawk lake.....	193	viii	Marl in.....	149	xii
Niven's base line and S. of.....	142	ix		115, 116 B	xiii
Rainy Lake dist.....	97	iv	S. tp., BRANT CO.		
berry.			Brick making in. See Harrisburg.		
Abitibi dist.....	241 A	xiv	Marl in	33, 149	xii
Deer rapid, ABITIBI RIVER.				34 B	xiii
See Buck-deer rapid.			See also Blue lake.		
lake, MICHIPICOTEN DIV., ALG.			Dummer tp., PETERBORO CO.		
Huronian rocks on.....	348 A	xiv	Barite in	195	ix
lake, SHEBANDOWAN LAKE REG.,			Chalcopyrite in	196	ix
TH. B. D.			Dumond, S.	103	vii
Notes on, by Blue.....	118	v	Dun, Finlay	116	xi
Route from, to Huronian mine .	125	v	Duncan, A. G.		
lake, NEAR VERMILION LAKE,			Evidence by, before R.C. re:—		
TIMAGAMI DIST., NIP.			mineral lands.....	309	R C
Jaspilite near	170	x	Vermilion Mining Co.....	113	R C
Ducktown, POLK CO., TEN.	456	R C	R. K.		
Dudley, H. D.	103	viii	Notes by, on uses of acetylene. .	33	v
tp., HALIBURTON CO.			W. G.	142	vii
Apatite in	173	R C	Prof. Wyndham R.		
Dudleyville, TALLAPOOSA CO., ALA.			Notes by, on quality of Canadian		
Corundum at.....	242	viii	mica	135	x
	194	ix	silver mine. See Shuniah		
Dudswell Marble and Lime Co.			silver mine.		
Lime output of, 1887.....	82	R C	Dunchurch, HAGERMAN TP., P. S. D.		
Duff, John			Country north of, character.....	169	ix
Report by, on peat in Sweden... 218		ii	Dundas, PROTON TP., GREY CO.		
George			Beach at, altitude.....	176	ix
Iron mining by, Madoc tp.....	31	viii			
J. A.					
Fossils found by, Payne river... 219		x			

	Page.	Vol.		Page.	Vol.
Dundas, FLAMBOROUGH TP., WENTWORTH CO.			Dunnett, S. C.	141	x
Gas in, boring for.....	152	R C	tp., NIP.		
piped to.....	91, 106	A xiv	Prospecting in.....	40	A xvi
	23	A xv	Dunning's mills, CUMBERLAND TP., RUSSELL CO.		
	25	A xvi	Cambro-Silurian at.....	108	B xiii
Limestone near, notes on....	124, 125	B xiii	Dunnville, MOULTON TP., HALDIMAND CO.		
Medina shale at.....	43	R C	Artesian wells in.....	62	i
Traverstine at, crystalline.....	91	B xiii	Dam near, on Grand river.....	198	iii
bay, NEAR HAMILTON.			Gas at and near.....	39	xii
Brick-clay near.....	238	A xiii		22, 23	A xiii
Mammoth remains at.....	229	A xiii		105, 106	A xiv
cape, BRUCE CO.			notes, 1890.....	137	i
Clinton and Medina formation at.	35	B xiii	supplied to.....	91	A xiv
Limestone in, notes by Miller..	39	B xiii	See also following refs.		
river, WENTWORTH CO.			Limestone quarry at.....	101	i
Beach on, raised.....	28	B xv	Gas Development Co.		
street, LONDON, ONT.	60	i	Capital and date of charter.....	29	A xvi
Dunderland Iron Ore Co.	331	xii	Mutual Natural Gas Co.		
Dundonald tp., NIP.			Capital and date of charter.....	25	A xv
Porphyritic rocks in.....	120	A xiii	Natural Gas Co.		
Dundonald park, HAMILTON.			Notes on, 1890.....	137	i
Gravel beach in.....	228	A xiii	Dunphy, John	24	viii
Dune. See Sand dune.			Duntroon, NOTTAWASAGA TP., SIMCOE CO.		
Dunedin, NEW ZEALAND.			Limestone quarry near, analysis.	110	B xiii
Mining school at.....	221	iv	Dunwich Gas and Oil Co.		
Dungannon tp., HASTINGS CO.			Capital and date of charter.....	9	xii
Andradite in.....	193	ix	tp., ELGIN CO.		
Biotite in.....	195	ix	Erie clay in. See Port Talbot.		
Cancrinite in.....	196	ix	Oil in, discovery.....	19	vi
Corundum in.....	217-220, 244	viii	notes by Blue.....	15	viii
Graphite in.....	199	ix	Dupont Gold Mg. Co.		
Hastingsite in, analysis.....	199	ix	Capital and date of charter.....	9	ix
Iron in, magnetite.....	202	ix	Dupuis, Nathan F.	216	i
Mining. See Mineral Range Iron			Durahamel, Edwrd.	30	vii
Mg. Co.			Durango state, MEXICO.		
Lepidomelane in.....	201	ix	Cobalt minerals in.....	71	B xiv
Molybdenite in.....	205	ix	Durham, T. S.	61	x
Muscovite in.....	205	ix	Durham, BENTINCK TP., GREY CO.		
Nepheline-syenite in.....	198	vi	Cement works at.....	32	xi
	226-229	vii		18	B xiii
	217-220	viii		17	A xv
	213	xi	suggested.....	17	x
notes by Coleman.....	252	viii	See also National Portland Ce-		
Perthite in.....	206	ix	ment Co.		
Pyrrhotite in. See Turriff.			Limestone quarries near.....	50	B xiii
Railway through, for iron devel-			co.		
opment.....	61	ii	Brick yards in, notes.....	61, 62	B xv
Sodalite in.....	225	vi	Limestone in, notes by Miller...	40	B xiii
	209	ix	co., ENGLAND.		
exhibited at World's Fair.	188	ii	Coal in, royalties on.....	17	i
Dunite.			creek, ENNISKILLEN TP., LAMBERTON CO.		
Appalachian mts.....	242	viii	Oil on, boring for.....	25	v
New Caledonia.....	69	B xiv	Natural Gas and Oil Co.		
Dunkard creek.			Capital and date of charter.....	11	xi
Natural gas and oil near.....	141	i	Portland Cement Co.		
Dunlop, G.	174	v	Capital and date of charter.....	9	x
W. W.....	65	xii	Dusseldorff, GERMANY.		
Dunn, B. W.	67	A xvi	Peat experiments at.....	219	xii
C. B.....	103	viii	Du Toits Pan diamond mine,		
	116	ix	KIMBERLEY, S. AFRICA.....	122	ix
John			Duties. See Tariffs.		
Iron mining by, Madoc tp.....	32	viii	Dutton, DUNWICH TP., ELGIN CO.		
Michipicoten			Oil at.....	17	x
div.....	103	vii		90	A xiii
Mrs. M.	74	xi	boring for.....	108	A xiii
iron mine, MENOMINEE RANGE,					
MICH.....	146	iii			

	Page.	Vol.		Page.	Vol.
Dutton, DUNWICH TP.--<i>Con.</i>			Eagle, Wis.		
Oil at, production, 1905.....	108 A	xv	Diamonds at.....	120	ix
1906.....	24 A	xvi	Copper Co.		
Peat-bogs near.....	191	i	Capital and date of charter.....	38 A	xiii
Dwyer, John	276	vi	Copper mine, GOULAIS BAY, L.		
	58	xii	SUPERIOR.		
<i>See also</i> Dwyer gold mine.			Notes on, 1904.....	62 A	xiv
gold mine, DRURY TP., ALG.			island, STONY LAKE, PETER-		
Notes on.....	87, 88	vii	BOROUGH CO.		
Mining Co.			Granite quarry on.....	212	viii
Capital and date of charter.....	29 A	xvi	lake, FRONTENAC CO.		
Dycie, Maggie AND J. G.	103	viii	Apatite on.....	46	ii
	115, 116	ix	mining.....	172	R C
	141	x		240	i
	73	xi		228	viii
	65	xii		251	ii
	48 A	xiii	<i>See also</i> Blessington		
Dyeing.			mines.		
Lime used in.....	3 B	xiii	Corundum-bearing rocks near...	228	viii
Dyer--? (1826)	17	ii	Iron ore on, magnetite.....	47	ii
William			titanic.....	337	xii
Limestone quarry of, Brockville			Limestone on.....	46	ii
72, 73 B	73 B	xiii	underlying iron ore..	48	ii
Dyment station, R. R. D.			lake, MANITOU LAKE REG.,		
Gold mining near. <i>See</i> Sakoose			R. R. D.		
mine.			Gold on and near.....	230	iv
Railroad from, to Sakoose mine.	101	x	mining, 1900.....	95, 96, 146	x
Town-site of, surveyed.....	72	viii	1901.....	243, 244	xi
Dymer, William	34, 35 A	xvi	1902.....	49, 92, 93	xii
Dymond and Abitibi Mg. and De-			1903.....	64, 65 A	xiii
velopment Co.			1904.....	34 A	xv
Capital and date of charter.....	25 A	xv	1905...	47, 53-55, 66 A	xv
tp., Nip.			1906.....	59 A	xvi
Brick-clay in <i>See</i> New Liskeard.			<i>See also</i> Manhattan g. m.		
Diabase in.....	5 B	xiv	Map of district of.....	With Vol. iv	
with erythrite.....	28	xiv	Railway from, to Elizabeth lake,		
Dynamite.			suggested.....	59	viii
Inferior quality of, danger from.	78	xii	lake, MICHIGOTEN DIV., ALG.		
Sulphuric acid for.....	193, 197 A	xvi	Character of Dog river near.....	285 A	xiv
Use and abuse of, paper on...	284-287	v	Length of.....	292 A	xiv
Works for, near Brockville.....	152 A	xvi	Lake Gold Mg. Co.		
D'Youville, Rev. Mother	162	v	Capital and date of charter.....	38 A	xiii
Dysart tp., HALIBURTON CO.			Photo of mill-approach of....	96, 97	x
Apatite in.....	173	R C	Work by, 1900.....	95	x
	194	ix	Nest Gold Mg. Co.		
Grenville series in.....	56 B	xiii	Capital and date of charter.....	8	vii
Iron mining in. <i>See</i> Haliburton.			Situation of claim of, work by..	56, 57	vi
Dyscrasite.			river, ENGLISH RIVER, R. R. D.		
Cobalt dist.....	xi, 98 A	xiii	Iron ore on.....	145	R C
Coleman tp.....	13 B	xiv	river, L. SUPERIOR, TH. B. D.		
formula.....	12, 23 B	xiv	Description of lake shores near..		
Dysinger, Charles M.	48 A	xiii	Rocks near mouth of:		
	59 A	xiv	conglomerate.....	166	viii
Dysyntribite. <i>See</i> Agalmatolite.				167	xi
			photos.....	348-352 A	xiv
			quartz mass.....	354 A	xiv
E 10-12 iron loc. <i>See</i> McKellar			(Ontonoggon) river, L. Su-		
iron mine.			PERIOR, U. S.		
152, 153 iron loc., MATAWIN			Copper on.....	63	iii
IRON RANGE, R. R. D.	132	v	Eakle, A. S.	190	ix
238 gold loc. <i>See</i> Swede Boys			Earl, J.	103	viii
gold mine.			Earle, Ellis P.	5, 40 A	xiv
Eabamet lake, ALBANY RIVER, KEE.			Earsenian, W. A.	149	i
Mission on. <i>See</i> Fort Hope.			Earth, The		
Eagen, Nassau Brown			Chemical composition of crust of.	447	R C
Gold mining by, Long lake.....	52	x	Definition of crust of.....	532	R C
Manager, Sentinel gold mine....	64	viii	Temperature of, increase in		
Eagle, bald-headed			depth.....	54	i
Abitibi dist.....	189	xii	Earthy cobalt. <i>See</i> Asbolite.		

	Page.	Vol.		Page.	Vol.
East bay, STURGEON LAKE, TH. B. D.			Ebenezer mine, NEAR GOLDEN, B.C.		
Nepheline-syenite near.....	87	xii	Cinnabar in.....	211	vii
*East End silver mine, SILVER MT., TH. B. D.			Eberts and Johnson.		
Acquired (1901) by Consolidated Mines of L. Superior.....	19, 256	xi	Gold prospecting by, near Middleton.....	82	vii
	96	xii	Eby tp., NIP.		
English capital in.....	196, 199, 235	R C	Divided into farm lots, 1902.....	173	xii
Labour employed at, 1898.....	280	viii	Geology of, notes by Bolton.....	175-180	xii
Notes on, 1891.....	228	i	Rocks in, petrographical notes.....	189	xii
1897.....	83, 84	vii	Eccles, G. H.	103	vii
1898.....	96	viii		103	viii
by Bain.....	275	viii	Ida	116	ix
Harvey.....	428	R C		141	x
Merritt.....	193	R C	creek, ECCLES LAKE, MICHIPICOTEN DIV., ALG.		
Trethewey.....	201	R C	Iron claims near.....	332 A	xiv
India Co., The Hon.			lake, MICHIPICOTEN DIV. ALG.		
Methods of, compared to those of H. B. C.....	201	v	Iron claims on.....	315, 332, 333 A	xiv
Lexington, MIDDLESEX CO., MASS.			Rocks near.....	307, 343 A	xiv
Peat-fuel Factory at.....	28 A	xiii	Ecclesiastes.		
New York iron mine, ISHPENDING, MICH.			Quotation from.....	74 B	xiv
Boring in, cost of.....	232	v	Echinodermata.		
Palestine, COLUMBIANA CO., OHIO.			Anderdon tp.....	125	xi
Paving clay from, analysis.....	120	iii	Echo.		
Toronto Brick Co.			Shoal lake, Seine river, notes by Blue.....	155	v
Capital and date of charter.....	24 A	xiii	bay, McDONALD TP., ALG.		
Eastern Canada Oil Co.			Chalcopryite at.....	196	ix
Capital and date of charter.....	37 A	xiii	Farming industry at.....	197	viii
Development Co.	236	i	Limonite from, shewn at World's Fair.....	82	ii
Mining Syn.			bay, SHOAL LAKE, L. OF THE WOODS.		
Capital and date of charter.....	8	vii	Copper pyrites on.....	49	v
Townships, The, QUE.			Gold mining on and near.....	68	viii
Anthraxolite in.....	5, 6 Bull.	ii		59	ix
Asbestos in, quality.....	97	iii	<i>See also</i> Daunais, Oliver.		
Glaciation in, direction of.....	49	R C	Nonesuch g. m.		
Nickel in.....	150 C	xiv	Limestone on, crystalline.....	49	v
Roofing slates of, ref. to.....	73	i		101	xi
Townships Mg. and Dev. Co.			Huronian.....	82	i
Capital and date of charter.....	8	vii	lake, N. OF L. HURON, ALG.		
Gold mining by, near Dryden... 42, 75	77	vii	Bismuth near.....	195	ix
		viii	Copper on.....	88	R C
Easthope S. tp., PERTH CO.			map; mining.....	91, 92	R C
Brick making in. <i>See</i> Stratford.			prospecting.....	97	R C
Eastman Springs. <i>See</i> Carlsbad Springs.			Fault from, to Mississagi river... 39	iii	
Eastnor tp., BRUCE CO.			Geology of vicinity.....	123, 124	viii
Medina and Clinton formation in. 35 B	xiii		Glacial striae on, direction.....	157	viii
Easton, F. W.	87	ix	Iron ore on, at World's Fair.... 80	ii	
Judson			hematite.....	143	R C
Limestone quarry of, Brockville. 72, 73 B	xiii		specular.....	64	ii
Robert	149	xii	Lead and silver mining on, notes by Skewes.....	147	R C
	116 B	xiii	Marble on.....	68	R C
Corners, WOLFORD TP., GRENVILLE CO.				31 B	xiii
Calcareous formation at.....	47 B	xiii	notes by Merritt.....	76	R C
quarry, NEAR BROCKVILLE.			Snow.....	83	R C
Limestone from, analysis.....	72, 73 B	xiii	Rocks on and near.....	274, 275 A	xiv
Eaton—?			conglomerate.....	185	ix
Plumbago working by, MacCue.. 181	R C			187	x
Eauclaire, CALVIN TP., NIP.			Huronian.....	159, 160	viii
Mica mining in.....	195	iii	petrography.....	170	viii
			photos.....	152, 153	viii
			quartzite.....	92 C	xiv
			Stibnite on.....	210	ix
			lake, RENFREW CO.		
			Application made to divert water of. 20	ix	
				131	x

*Also known as Shuniah Weachu.

	Page.	Vol.
Echo Lake Mg. Co.		
Capital and date of charter.....	11	xi
river, NEAR GARDEN RIVER,		
ALG.		
Iron ore near mouth of.....	188	x
Notes on, by Coleman.....	124	viii
Eckardt, A. J. H.	85, 86	x
Eckford quarry, NEAR ARNPRIOR.		
Analysis of limestone from....	105, 106	B xiii
Eckstein Bros.	122	xi
Ecole Centrale des Arts et Manu- factures.	498	R C
des Maitres Mineurs.		
Notes on, by Royal Com.....	498	R C
des Mines.		
Notes on, by Royal Com.....	497	R C
Polytechnique.	499	R C
Economic geology.		
Notes on a museum of.....	522-524	R C
Gold and Nickel Pyrite Smelting Co.		
Capital and date of charter.....	8	vii
Minerals.		
Paper, by Hardy, on the smelt- ing of.....	319-388	R C
Gas Apparatus Construction Co.		
Merrieffield gas generator con- structed by.....	228	xii
Eczema.		
Arsenic for.....	61	iii
EDB 1 gold loc., NEAR DRYDEN, R. R. D.	55 A	xv
	59 A	xvi
Eddystone lighthouse, OFF PLY- MOUTH, ENGLAND.		
Lime for, analysis.....	107	i
Eden, BAYHAM TP., ELGIN CO.		
Guelph formation at.....	121	B xiii
Edey, M. C. AND R. W.		
<i>See also Edey Gold Mg. Co.</i>		
Iron claims of, Michipicoten div.	316	A xiv
folding in.....	340	A xiv
notes by J. M. Bell.....	337	A xiv
Licence to.....	103	vii
	103	viii
	116	ix
	141	x
	74	xi
	65	xii
	48	A xiii
Manager for Edey Gold Mg. Co..	112	ix
Gold Mining Co.	112, 113, 116	ix
Edgar, William	30, 31	viii
Thomson iron works, NEAR PITTSBURG.		
Bessemer steel made at.....	365	R C
Labour employed by, cost of....	370	R C
Edgeward island, L. HURON.		
Minerals and rocks of.....	109	R C
Edginton station, CANADA ATLANTIC R'y.		
Mica mining at.....	98	vii
Edison, Thomas A.		
Battery perfected by, employing cobalt for generating.....	11	A xv
Cobalt prospecting for, Bay lake.	87	A xv
Correspondence between, and S. Ritchie.....	108, 109	ii

	Page	Vol.
Edison, Thomas A.—Con.		
Explorations for, Sudbury dist..	289	xii
	55, 214	A xiii
	10	A xiv
	15, 55, 111, 144	C xiv
Magnetic separator of, description.		
	348, 349	R C
	328, 329	xii
	ref. to..	339, 340
separation of pyrrhotite by.....	164, 165	ii
Notes by, on treatment of impure magnetic iron ores....	89	ii
Visit of, to Sudbury.....	82, 89	xi
	49	xii
Edith Furnace Co.		
Labour employed by, statistics..	370	R C
Edmison, Dr. Albert Henry	49	vii
Edmondson, E. S.	214	v
"Edna Brydges" ss.	47, 51, 166, 168	v
gold mine, ANZHEKUM- MING LAKE, R.R.D.		
Notes on, 1897.	122	vii
Edward, A. C.	164	R C
Cobalt Mines, Ltd.		
Capital and date of charter.....	28	A xvi
Edward island, L. SUPERIOR.		
Arsenic (native) from.....	86	v
Silver mining on.....	202	R C
	188	v
Edwards, Clark	20	ix
	131	x
Frederick.	249	ii
Henry, W.,		
In charge of smelter, Murray mine.....	231	i
	246	ii
Leaves Murray smelter.....	247	iv
Notes by, on processes at Murray mine.....	188	iii
R. M.	507	R C
furnace.		
For pyrites ores.....	194	A xvi
tp., Nip.		
Rocks in.....	210	A xiv
Soil in.....	232, 246	A xiv
muskegs.....	187, 203, 209	A xiv
requires drainage.....	207	A xiv
Trees in.....	232	A xiv
Edwardsburg tp., GRENVILLE CO.		
Calciferous formation in. <i>See</i> Cardinal.		
Eel creek, STONY LAKE, PETERBORO CO.		
Peristerite in.....	206	ix
Rocks in valley of.....	213	viii
Effingham, Earl of.	22	i
tp., ADDINGTON CO.		
Mica in.....	203	ix
mining, 1891.....	244, 245	i
1892.....	249	ii
<i>See also Mazinawe lake.</i>		
Eganchute, EGAN CREEK, YORK BRANCH RIVER.		
Syenite near.....	219	viii
Waterpower of.....	220	viii
Egan farm, YORK BRANCH RIVER.		
	218, 219	viii

	Page.	Vol.		Page.	Vol.
Eganville, GRATTAN TP., RENFREW CO.			Eldorado, MADOC TP., HASTINGS CO.		
Iron mining near.....	16 A	xvi	Country north of, character.....	232 A	xiii
See also Radnor iron m.			Copper smelter at.....	89 A	xv
Mining class at, 1896.....	197	vi	See also Eldorado copper mine.		
Sphene at, notes on.....	209, 210	ix	Gold mining near. See Richard-		
Trenton formation at.....	104 B	xiii	son g. m.		
Eggs.			Growth of.....	54	iii
Lime used for preserving.....	3, 13 B	xiii	Mispickel near.....	199	xi
Egleston, Dr. Thomas			(OR Medina) copper mine,		
Notes by, on iron smelting...476, 480	R C		MADOC TP., HASTINGS CO.		
mining schools.....	418	R C	Notes on.....	76 A	xvi
Egmondville, TUCKERSMITH TP.,			Plant of, photos.....	77 A	xvi
HURON CO.			Producing, 1906.....	15, 16 A	xvi
Pottery at, photo of.....	119 B	xv	Pyrite in, underlying hematite .	182 A	xvi
Egypt.			gold mine, EAGLE LAKE,		
Brick of the treasure cities in....	107	iii	MANITOU LAKE DIST., R. R. D.		
mortar for, character.....	12 B	xiii	Notes on, 1900.....	96, 97	x
British methods in.....	9	iv	1902.....	93	xii
Cobalt glass made in.....	69 B	xiv	1903.....	65 A	xiii
Einigkeit shaft, JOACHIMSTHAL,			1904.....	49 A	xiv
BOHEMIA.....	63 B	xiv	1905.....	53 A	xv
Einigl, Anton	207	i	Operating, 1906.....	59 A	xvi
Eissenickelkies. See Pentlandite.			Photos of.....	64, 65 A	xiii
Ekfrid tp., MIDDLESEX CO.				54 A	xv
Oil and salt in. See Glencoe.			Mg. Co.		
Ekinu creek, EAGLE LAKE, MICHIPICOTEN DIV., ALG.			Capital and date of charter.....	25 A	xiv
Rocks near mouth of.....	348 A	xiv	Operating.....	4, 49 A	xiv
lake, DOG RIVER. See Eagle lake.				53 A	xv
Ekman, Gustav			Eldridge, R. C.	65	xii
Peat kiln of	208	ii		48 A	xiii
El Diver gold mine, NEAR ROSSLAND, ONT.			"Eleanor" ss.	180, 181, 185	v
Minor ref. to.....	109	vi	lake, MICHIPICOTEN DIV.		
Notes on, 1892.....	234, 235	ii	Galena near.....	153	xi
by Blue.....	29, 30	iii	Gold prospecting near.....	195	vii
Rocks of.....	69	iv	Pleistocene deposits near	184	xi
contact Huronian-Laurentian..	110	vii	Rocks on and near.....	157	ix
Elæolite, See Nepheline.			158-161, 166, 179, 182	xi	
syenite. See Syenite, nepheline			Iron formation.....	256	viii
Elba, island of			notes by Coleman... ..	160	xi
Iron ore of, exported to Baltimore.	400	R C	Siderite near.....	196, 201	x
Gt. Britain. xx		R C	Striae east of, direction.....	178	ix
quality.....	472	R C	slates (LOWER HURONIAN).		
Petalite in.....	472	R C	Description and occurrences of		
Elba Iron and Continental Tube Co.			155, 158	xi	
Labour employed by, statistios... 370		R C	Michipicoten div., Goetz claims..	181 A	xv
Elbers, A. D.			Notes on, by J. M. Bell....	300, 301 A	xiv
Patent by, for smelting iron ore..	331	xii	Petrography of.....	181, 182	xi
Elbow lake, R. R. D.			Position of, in L. Huronian.....	174 A	xv
Boulders on, notes.....	90	v	Electric apparatus.		
Rocks on, Laurentian.....	73	v	Mica for.....	86 A	xvi
stockworks.....	52	iv	cables.		
Shape of; forest fires on.....	139, 140	v	Peat for isolating.....	215	ii
pt., STEEP-ROCK LAKE, R. R. D.			=Mercurial Amalgamator and Mining Co.		
Iron ore near	7	iv	Capital and date of charter	8	vii
Elderslie tp., BRUCE CO.			railways.		
Brick-yard in. See Paisley.			Advantages of, as opposed to steam.....	133	v
Dolomites in, bedded.....	36 B	xiii	smelting.		
Eldon tp., VICTORIA CO.			For aluminium, notes by Richards	173	i
Peat bog in. See Kirkfield.			For iron ores.....	349-351, 477	R C
Trent Vall-y			For nickel.....	158, 159	ii
Peat Fuel Co.			notes by Levat.....	156	ii
			Electro Chemical Co.		
			Formation of, reasons for	91	xi
			=Gas Co.	161	iv

	Page.	Vol.
Electro-Gold gold mine, JAFFRAY TP., R. R. D. Notes on, 1899.....	37	ix
-plate. Nickel for.....	145, 146	ii
Elements. Notes on, by Copp.....	447	R C
Elephant. Remains of, near Hamilton	229 A	xiii
lake, S. OF ENGLISH RIVER, R. R. D. Geology of vicinity.....	163	vii
Pleistocene deposits near.....	173	vii
Spruce near.....	181	vii
Elftman, Dr. Manager for Parry Sd. Copper Mg. Co.	259-261 164-167	viii ix
Notes by, on copper deposits, Carling tp.....	168	ix
Elgin, Lord Bruce Mines called after.....	96	R C
Minor refs. to.....	173	ii
	126	vi
Elgin, S. CROSBY TP., LEEDS CO. Limestone in, notes by Miller...	41 B	xiii
Mica mining near	89 A	xvi
co. Brick yards in, notes on.....	62, 63 B	xv
Hamilton formation in	25 B	xiii
Natural gas in.....	29	v
notes and borings.....	108, 109 A	xiv
Oil in, industry, 1898.....	15, 17	viii
notes and borings.....	108, 109 A	xiv
Peat in.....	209	ii
silver mine, JACKFISH BAY, L. SUPERIOR. Notes on, by Dickie.....	445	R C
Owned by Canadians.....	199	R C
Silver Mining Co. Capital and date of charter. . .	8	vii
Elginfield Oil and Gas Developing Co. Capital and date of charter.....	8	vii
Work by, Dunwich tp.....	15, 16	viii
Dutton field.....	108 A	xiv
Eliza Furnace Co. Labour employed by, statistics..	370	R C
Elizabeth bay, MANITOULIN ISLAND, ALG. Niagara formation near	79 B	xiii
Copper Mg. Co. Capital and date of charter.....	25 A	xv
gold mine, RICE LAKE, NEAR STEEP-ROCK LAKE. Accident at.....	39 A	xiii
Closed.....	52 A	xiii
Discovery of; expenditure on..	40, 41	x
Mill erected at.....	15	xii
Notes on, 1900.....	40, 41	x
1901. 15, 16, 133, 150, 240, 241		xi
1902.....	15, 82	xii
Outcrop of, photos.....	240, 241	xi
Elizabethtown tp., LEEDS CO. Caoxenite in	195	ix
Cobalt in	196	ix
with iron pyrites	60 B	xiv
Hisingerite in.....	199	ix
Iron pyrites in	207	ix
mining	149-153 A	xvi

	Page.	Vol.
Elizabethtown tp., LEEDS CO.—Con. Marine deposits in. <i>See</i> Lyn. Peat bog in. <i>See</i> Brockville. Pyrrhotite in.....	207 500 A	ix xvi
Siderite in.....	209	ix
Steatite in; talc in.....	210	ix
Elk (WAPITI). Desjardins canal (remains).....	229 A	xiii
lake, MONTREAL RIVER, NIP... ..	69	i
Ella lake, CAPREOL TP., NIP. Magnetic attraction on.....	74 C	xiv
Shape of, conforms to rocks.....	202 A	xiii
	73 C	xiv
Ellen lake, MICHIPICOTEN DIV., TH. B. D. Country north of, character.....	281 A	xiv
Rocks near.....	349 A	xiv
Doré conglomerate.....	346 A	xiv
Ellice tp., PERTH CO. Peat bog in. <i>See</i> Brunner.		
Elliott, Alexander	21, 24	vi
Edward	136	R C
Eli	275	v
Brickyard of, Thedford.....	8 B	xv
Wingham.....	71 B	xv
J. Quarry of, photo.....	96, 97 B	xiii
producing, 1892.....	28	xii
M. M. Sandstone quarrying by, Caledon tp.....	74, 79	R C
	99	i
R	11 B	xv
R. J. Manager, Crown Point mine....	61 A	xiii
Paymaster mine.....	54 A	xiv
	52 A	xv
W. C.	33, 149	xii
	18, 34 B	xiii
and Sons. Brick works of, Sault Ste. Marie, etc.....	57, 58 B	xv
Saugeen clay for. . .	20 B	xv
and Sons. (TORONTO). Map by, of Ontario, for Pan- American Exhibition.....	84	xi
falls, GULL RIVER. Water power from.....	33	xii
	17 A	xiii
	18 B	xiii
	157 A	xiv
Ellis,—?	79 A	xiv
A. St. George	243	xi
C. E. Paper by, on armour plates...149-158		iii
Douglas	44 A	xv
John Devonshire Evidence of, <i>re</i> royalties in Gt. Britain.....	22, 23	i
P. W. Hungerford quarries controlled by.....	235	R C
	87	xi
Dr. W. Hodgson Analysis by, of anthraxolite....	4 Bull.	ii
	95 C	xiv
ref. to	124	ix
rock from near Vermilion lake. 133 C		xiv

	Page.	Vol.		Page.	Vol.
Ellis, Dr. W. Hodgson—Con.			Elmsdale, PERRY TP., P. S. D.		
Experiments by, on runs of the Merriefield gas generator.....	228	xii	Gold claims in; tourmaline in...	172	ix
Nagygite reported by, Huronian g. m.....	106	v	Elmsley tps., LANARK AND LEEDS COS.		
Notes by, on peat treated by the Dickson process.....	201	i	Apatite in.....	176	R C
Paper by, on chemical composition of anthraxolite.....	4	Bull. ii		194	ix
Professor of Applied chemistry, Toronto.....	215	i	works in. See Smith's Falls.		
Tests by, on peat.....	207	ii	Graphite in.....	181	R C
carbonization process. See				196	iii
Harvey steel.			See also McConnell mine. McCue.		
quarry, BAY OF QUINTE.			Iron ore in.....	138	R C
Limestone from, analysis.....	65, 66	B xiii	limonite.....	201	ix
Ells, Dr. R. W.			Limestone in.....	102	B xiii
Asbestos defined by.....	94	iii	Loganite in.....	201	ix
Paper by, on peat industry in Canada.....	195-200	ii	Marl in.....	73	B xiii
Ref. to brochure by, on marl deposits.....	121	A xiv		121	A xiv
Ref. to work by, Hastings dist..	208	vii	Mica mining in.....	290	xi
	245	viii	Sandstone in, for building.....	80	R C
Ottawa valley. 216, 222		x	Tourmaline in.....	211	ix
	22, 37	B xiii	<i>Elodea canadensis.</i>		
bend, SOWESKA RIVER, MISSIN-AIBI RIVER.			Ottawa (near).....	225	x
Lignite at, map showing.....	165	A xiii	Elora, NICHOL TP., WELLINGTON CO.		
Notes on, by J. M. Bell.....	166	A xiii	Guelph formation at.....	45	R C
peninsula, L OF THE WOODS, R. R. D.				121	B xiii
Granite on.....	102	vi	Lime-kilns at.....	14	A xiii
Elm.				122	B xiii
As fuel, calorific power.....	54	B xv	Elphinstone, Hon. Mountstuart W. Lord..		
Batchawana valley.....	200	viii		174	v
Blanche river.....	215	xi	gold mine, SHOAL LAKE NARROWS, L. OF THE WOODS....	174	v
Fort Frances.....	161	v	Elsberg peat process.	194	i
Frederick House Lake dist.....	124	A xiii	Elsie gold mine, NEAR KENORA, R. R. D.		
Hudson Bay slope.....	121	iv	Notes on 1897.....	110	vii
Mississagi river.....	161, 172	xii	junction, McKIM TP., NIP.		
Rainy Lake dist.....	96	iv	Norite near, photo.....	79	C xiv
Rainy river... ..	117	iv	nickel mine, McKIM TP., SUD-BURY DIST.		
	207, 208	v	Accident at, 1902.....	46	xii
American OR swamp			Boring plant purchased by.....	42	A xiii
Abitibi Lake dist.....	242	A xiv	Notes, on 1901.....	281, 282	xi
Michipicoten div.....	295	A xiv		123, 287	xii
Moose River basin.	176	A xiii	Production.....	144	C xiv
white			Pyrites crystals in.....	281	xii
Abitibi dist.....	126	A xiii	cubes.....	158	C xiv
Elma, WILLIAMSBURG TP., DUNDAS CO.			Ore deposits of, character....	278, 279	xii
Fossils in.....	91	B xiii	connected with		
tp., PERTH CO.			Murray deposits. 20	C xiv	
Cement in. See Western Ont. Portland Cement Co.			Rocks in and near:—		
Fossils in, on surface.....	95	B xiii	greenstone.....	81	C xiv
Marl in.....	162	A xiv	photo.....	51	C xiv
Elmo creek, KABENUNG LAKE, MICHIPICOTEN DIV.			granite.....	83, 124	C xiv
Canoe route on.....	292, 293	A xiv	malachite masses.....	76	C xiv
Rocks on.....	315, 330	A xiv	norite.....	114	C xiv
lake, MICHIPICOTEN DIV.			petrography.....	108	C xiv
Minor ref. to.....	293	A xiv	notes by Coleman.....	50-52	C xiv
Rocks on.....	315	A xiv	pillow structure.....	60	C xiv
Iron formation.....	330	A xiv	Work by, 1901.....	20	xi
Elmore process.			Worked by L. Superior Power Co.	143	C xiv
Advantages of.....	11	A xiv	Elvan.		
			Definition of.....	533	R C
			Elvins, Andrew	67	iii
			Elvo, NEAR BIELLA, PIEDMONT, ITALY.		
			Nickel in auriferous sands of....	151	C xiv

	Page.	Vol.
Ely, A. C.		
See also Ely iron mine.		
Analysis of ore from claim of....	193	x
Iron and gold mining by, Michi- picoten div.....	254, 258	viii
	113, 116, 156	ix
	139, 141	x
	74, 168	xi
Ely, NEAR TOWER, MINN.		
Iron mining at.....	124, 126	R C
notes by Coleman..	152	ix
See also Chandler mine.		
range, compared with Michi- picoten range	175	xi
greenstone (VERMILION SERIES).		
Description of	272	A xiv
Section of (theoretical).....	124	R C
Similarity of, to Gros Cap green- stone	156	xi
Vermilion dist., U. S.	301	A xiv
iron mine, IRON LAKE, MICH- PICOTEN DIV., ALG.		
Notes on, 1901.....	71, 72	xi
Elzevir Mining and Development Co..		
Capital and date of charter	9	viii
tp., HASTINGS CO.		
Actinolite in	52, 86	R C
	192	ix
	27	xi
notes	91, 92	iii
See also Actinolite, Ont.		
Antholite in	193	ix
Asbestos mining in	92	A xiii
stopped, reason for ..	87	A xiv
Geology of, notes by Miller..	199, 200	xi
Gold in	28	R C
prospecting	92	vii
Granite in	200	xi
Indicolite in	200	ix
Iron ores in	39, 40	ii
hematite	55	ii
	199	ix
Marble from, white	62	B xiii
Mispickel in	103	xi
Talc in	99	iii
mining	9	iii
Steatite in	210	ix
Embrum, RUSSELL TP., RUSSELL CO.		
Trenton limestone near	107	B xiii
Embury, W. J.	38	A xv
	48	A xvi
Emerald apatite mine, BUCKINGHAM TP., OTTAWA CO., QUE.		
Pockets in, showing banded structure	441	R C
Pyroxenite in	437	R C
lake, HUNTER ISLAND, R. R. D.		
Iron prospecting on, evidence before Royal Com.	125, 126	R C
lake, OPIMIKA CREEK, NIP.		
Dolomite on	169	x
Iron ore on and near	201	x
	315	A xiv
Marl in	122	A xiv
analysis	88	B xiii
Notes on, by Barlow	87	B xiii
Quartz from, assay of	180	x

	Page	Vol.
Emeri cape, NAXOS ISLAND, AEGEAN SEA.		
Emery called after	533	R C
Emerson Co.		
Oil producing, 1896	24	vi
Emery.		
See also Corundum.		
Asia minor	242	viii
Definition of	533	R C
	217	vi
Greece and Turkey	62	vi
Nomenclature	523	R C
Price of, 1898	238	viii
United States, Chester	62	vi
	213	vii
	242	viii
statistics..	218, 249, 250	vii
	237	viii
mill.		
For cement making, illustrations and notes	131	A xiv
wheels.		
Manufacture of, notes on	38	xi
Wheel Works, PROVIDENCE, R. I.		
Notes by, on corundum from Raglan tp.	240	viii
Emily gold mine, DOG LAKE, MICH- PICOTEN DIV.		
Boling on	62	xi
Idle, 1903	47	xiii
Minor ref. to	294	A xiv
Morainic hills near	192	A xv
Notes on, 1901	95	xi
1902	71	xi
by Coleman	187	A xv
Ore of, character	95	xi
iron mine, TUDOR TP., HAST- INGS CO.		
Andradite in	193	ix
Iron ore from, at World's Fair ..	82	ii
Mispickel in	105	xi
Rocks of	57	ii
Emlaw, H. S.	239	xi
Emm bay, CROW LAKE, R. R. D. ..	89	vi
Emma Abbott gold mine, LOWER SEINE RIVER DIST.		
Felsite schists in	262	viii
Notes on, 1898	274	viii
1899	75	ix
Abbott Gold Mg. Co.		
Capital and officers	75	ix
lake, CAPREOL TP., NIP.		
Strike of	202	A xiii
lake, CREIGHTON TP., NIP.		
Huronian schists on	46	iii
Nickel-bearing eruptive on	38	C xiv
Emmens, Prof. S. H.		
New (?) minerals discovered by, Sudbury dist.	281	xii
description of same	192	ii
	160	C xiv
whartonite named by	211	ix
Notes by, on peat for :—		
fuel for steamers	203	i
gas	210	i
iron-smelting	208	i

	Page.	Vol.		Page.	Vol.
Emmens, Prof. S. H. Con.			Empress Tilbury Oil and Gas Co...	97 A	xvi
Papers by, on:—				17	vii
constitution of nickeliferous			Enamel Paint Co.....	122	xi
pyrrhotite.....163-166	ii		Enamels,		
new sources of Platinum...179, 180	ii		Analysis of venetian	120	xi
some new nickel minerals .167-170	ii		Enermites.		
Ref. to report by, on Geology of			Nassagaweya tp	57 B	xiii
N. Y.....	31	ii	Thorold	117 B	xiii
Views of, on origin of apatite			Encrinurus nereus.		
deposits	438	R C	Lac Seul.....	92	v
Metal Co.			Encyonema prostratum.		
Nickel refined by.....	131	ii	Ottawa (near).....	225	x
Work by, at Macdonnell mine...179	ii		Endemann, H.		
mine, McINTYRE TP., TH. B. D.			Analysis by, of asphalt	166	vi
Mispickel in	57 B	xiv	End-of-Steel, BOSTON TP., NIP.		
Emmerson, J. T.	116	ix	Mining classes at.....	50, 54 A	xvi
Emmons, J.			Energy, YORK CO., S. CAROLINA.		
Gold mining by, Bag bay	82	ix	Corundum in	242	viii
Emory, Dr.....	37	x	Engines. See Locomotives.		
See also Middleton.			England, Gustavus.....	44, 45, 48	xii
W. J. H.....	103	vii	England.		
Emperor gold mine, NEAR BAD			See also Great Britain.		
VERMILION LAKE, R. R. D.			Arsenic in, mining.....	101	xi
Dikes in, notes on.....	279	viii	production, 1895-1900. 110	xi	
Mining class at, 1898.....	281	viii	Calcium carbide in, manufacture		
Notes on, 1898.....	45, 84, 278	viii	of	23	x
Empetrum.			Cement in, notes on manufacture		
On peat bogs of Germany.....	213	ii	of	106, 107	i
Empey, J. M.	235	xii	Coal mines of, accidents in.....	199	iv
Empire Gas and Oil Co.			Cobalt imports of, from New		
Capital and date of charter.....	25 A	xv	Caledonia.....	73 B	xiv
Limestone Co.			Companies in Canada run by,		
Natural gas used by.....	23 A	xv	failure of.....	231	R C
Operating, 1902.....	28	xii	Iron in, competing with Canadian	104	ii
mine, MADOC TP., HASTINGS CO.			Exports to U. S., 1887.....	468	R C
Tetrahedrite in.....	38	iv	Iron in, production, 1800, 1850..	399	R C
	210	ix	smelting, early.....	356	R C
Mining Co.			furnaces, number of,		
Capital and date of charter.....	9	ix	1882.....	398	R C
Salt Co.			titaniferous for armour		
Capital and date of charter.....	24 A	xiii	plates.....	231	vii
Silver mine, PORT ARTHUR			Mining laws in.....	285	R C
DIST., TH. B. D.			schools in, location of.419,420	R C	
Animikie formation in.....	226	i	Nickel consumption in, 1895-1898.215	ix	
Notes on.....	240	ii	for armour plate trials in..xxiii	R C	
Empress Cobalt Silver Mg. Co.				197	iv
Capital and date of charter.....	28 A	xvi	See also British Admiralty.		
(OR JACKFISH) gold mine,			Oil for, flash test of.....	164	R C
JACKFISH BAY, L. SUPERIOR.			Prosperity of, cause of.....	181	i
Closed down, 1897.....	35	vii	1750 compared with 1890	367	R C
1898.....	95	viii	Roads of, trap employed for....	15	v
1900	87	x	Salt from, evidence before R. C.		
Depth of, 1899	35	ix	187-191	R C	
Examination of, 1902, ref. to....	81	xii	Streets of, brick used for paving. 108	iii	
Notes on, 1895	266	v	Engledue, C. W.		
1896.....263-265	vi		Manager, Ontario Limited g.m..	53	vii
1897.....80, 81, 134-136	vii			68	viii
1899	82	ix	Col. W. T.		
by Coleman.....	2 Bull. 1		Chairman, Mikado Gold Mg. Co.	7 Bull i	
	85	v	105, 107, 256	vi	
110, 111, 117	vi		President, Ontario Ltd. Gold Mg.		
McKellar.....265, 266	vi		Co.....	53	vii
as loc. 569... 189, 190	v		Purchaser, Triumph gold mine..	97	vi
Photos.....	48, 49	vii	Engleheart, J. L. and Co.		
Road towards, built by Govt....	9	vi	Oil pumping system of, at		
Rocks near, petrographical notes. 104	v		Petrolea:—		
Gold Mining Co.			description.....	107	ix
Formation of.....	190	v	photos	112, 113	ix
	8	vii	plan.....	106, 107	ix
and officers.....7, 56, 263	vi		Views of, re oil in Enniskillen tp. 26	v	

	Page.	Vol.		Page.	Vol.
English, C. B.	34	xii	Epilob'um augustifolium.		
James.	127	i	Abitibi Lake dist.....	241	A xiv
bay, L. NIPIGON, TH. B. D.	19	B xiii	Mattagami valley.....	150	A xv
Porphyry rock near.....	38	R C	“ <i>coloratum.</i>		
Portland Cement Co.			Abitibi Lake dist.....	241	A xiv
Merged in Canadian Portland			“ <i>glandulosum.</i>		
Cement Co.....	136	A xiv	Mattagami valley.....	151	A xv
Works of, erected.....	109	i	“ <i>hornemanni.</i>		
river, KEE. AND ONT.			Abitibi Lake dist.....	241	A xiv
Geology of valley of, near 4th.			“ <i>lincae.</i>		
Meridian.....	164	vii	Abitibi Lake dist.....	241	A xiv
River Gold Mg. Co.			Mattagami valley.....	151	A xv
Capital and date of charter.....	9	xii	Epinette river, MISSEISSAGI RIVER,		
Producing, 1902.....	15	xii	ALG.		
Work by, Sturgeon Lake dist....	84	xii	Beavers near.....	172	xii
Ennis farm, STORRINGTON TP., FRON-			Description of, by Graton.....	168	xii
TENAC CO.			Epsomite (MAGNESIUM SULPHATE).		
Iron mining in, 1899.....	104	ix	Occurrences.....	198	ix
Enniskillen Mining Co.			Equador.		
Capital and date of charter.....	9	ix	Nickel coinage in.....	161	ii
Mining in Michipicoten div.....	116	ix	Equerres, Les, EAGLE RIVER, L.		
66	xii		SUPERIOR.....	285	A xiv
tp., LAMBTON CO.			Equisetum limosum.		
Asphaltum in.....	195	ix	Ottawa, near.....	225	x
Hamilton formation in.....	47	R C	“ <i>palustre.</i>		
Oil in.....	156, 158, 159	R C	Abitibi dist.....	242	A xiv
See also Oil Springs.			“ <i>pratensis.</i>		
boring for, record.....	153, 156	R C	Abitibi dist.....	242	A xiv
113	A xiv		“ <i>scirpoides.</i>		
111	A xv		Ottawa (near).....	225	x
in Corniferous.....	47	R C	“ <i>sylvaticum.</i>		
notes by Blue.....	26	v	Ottawa (near).....	225	x
refinery works, description.	27	v	Equitable iron mine, DCG LAKE,		
Portage-Chemung formation in..	99	A xiv	FRONTENAC CO.		
Salt at, depth of.....	26	v	Notes on, 1899.....	104	ix
log of bore-hole.....	186	R C	Mining and Development		
Enstatite.			Co.		
Lake Huron and Lake of the			Capital and date of charter.....	8	vii
Woods.....	198	ix	Eramosa tp., WELLINGTON CO.		
Enterprise lead mine, BLACK BAY,			Limestone in, notes on.....	120, 122	B xiii
LAKE SUPERIOR.			river, WELLINGTON CO.		
Galena in.....	198	ix	Bridge on, stone for.....	122	B xiii
Keweenawan rocks in.....	39	iv	Marl in.....	122	A xiv
Minor ref. to.....	87	A xiii	Niagara formation on.....	120	B xiii
Notes on, by Bell.....	38	R C	Erdman, R. E.	112	xii
Borron.....	147	R C	Erfurt, THURINGIA, GERMANY	356	R C
Mining Co.			“Erian.”		
Capital and date of charter.....	8	vii	Suggested name for Devonian...	46	R C
Entricken, F.			Erica tetralix.		
Brick-yard of, Stratford:—			Germany, on peat bogs.....		
analysis of clay.....	14	B xv	Erickson, Rudolph	236	v
photos and notes.....	42, 58, 93, 94	B xv	Eridiophyllum.		
Eozoon canadense.			Abitibi river.....	187	viii
A scientific myth.....	12	R C	Erie, ERIE CO., PENN.		
Old views on.....	221	A xvi	Asbestos at, daily consumption..	99	iii
Organic nature of, denied.....	186	ii	clay		
Epicauta cinerea. See Beetle, ash-			See also Red-top clay.		
coloured blister			Alvinston, analysis.....	15, 75	B xv
Epidosite.			Beaverton, analysis.....	15, 87	B xv
Definition of.....	533	R C	Calcium carbonate in.....	15	B xv
Epidote.			Composition and nature of.....	11	B xv
Apatite districts.....	442	R C	Description and distribution of.	51, 53	R C
Character and composition.....	227	vi	For brick and tile making, des-		
Occurrences of.....	198	ix	cription and occurrences.....		
Mainainse.....	194	ii	11, 12, 58-66, 69-74, 77-80,		
Epigæa repens.			85-89, 95-105, 111	B xv	
Mattagami valley.....	151	A xv	For cement and pottery maki g.	115-119.	B xv
9 M I.			Named by Bell.....	4	R C

	Page.	Vol.		Page.	Vol.
Erie clay. — <i>Con.</i>			Erythrite (COBALT BLOOM). — <i>Con.</i>		
Notes on and photos.....	10-18	B xv	Lake Superior, Princes mine....	194	ii
by Gibson.....	126	iii	Silver islet.....	59	B xiv
Picton, analysis.....	15, 95	B xv	Madoc, near.....	103	A xiii
St. Joseph island, analysis.....	15	B xv		60	B xiv
Stratford, analysis and photo..	91-93	B xv		11	A xv
Thedford, analysis.....	75	B xv	Middlesburg dist., Transvaal....	70	B xiv
Washing of.....	76	B xv	Occurrences.....	214	vi
Waterloo, analysis.....	103	B xv		198	ix
Cobalt Silver Mg. Co.			Pihuamo, Mex.....	71	B xiv
Capital and date of charter.....	28	A xvi	Port Arthur dist.....	58	B xiv
County Gas Co.	135	i	Specific gravity of.....	201	vi
Mining Co.			Whiskey lake.....	11	A xv
Capital and date of charter.....	8	vii	Erzgebirge mt., SAXONY AND BO-		
Natural Gas Co.			HEMIA.		
Capital and date of charter.....	29	A xvi	Geology of, notes by Phillips..	62, 63	B xiv
Oil Co.			Graphitoid from.....	165	vi
Capital and date of charter.....	37	A xiii	analysis.....	166	vi
<i>Erigeron acris.</i>			ES20 gold loc. See Duluth Min-		
Abitibi dist.....	241	A xiv	ing Co.		
" <i>philadelphicum.</i>			79 zinc loc. See Gesic zinc mine.		
Abitibi dist.....	242	A xiv	106 copper loc. See Black Bay		
Mattagami valley.....	150	A xv	Mg. Co.		
" <i>strigosus.</i>			111 copper loc. See Tremblay,		
Mattagami valley.....	151	A xv	Peter		
Erickson, K.			109 copper loc. See Grahame &		
Ref. to work by, on magnetic			Co.		
concentration.....	341	xii	Escarpments.		
Erin tp., WELLINGTON CO.			Mode of formation of.....	48	R C
Gue'ph formation in.....	121	B xiii	<i>Eschara elegantula.</i>		
Niagara formation in.....	120	B xiii	Ottawa.....	224	x
<i>Eriomphalus deccevi.</i>			Eschweiler, G.	123	v
Kwataboahagan river, notes by			Escott tp., LEEDS CO.		
Parks.....	186	A xiii	Chalcopyrite in; cobalt in.....	196	ix
<i>Eriphorum.</i>			Eschers or Osars.		
Germany, on peat bogs.....	213	ii	See also Kames.		
Ermatinger tp.			Meteor lake.....	210	x
Diabase dikes in.....	76	i	Summit lake.....	206	A xv
Ermine.			Trenton, photo.....	224, 225	x
Abitibi dist.....	127	A xiii	Eskilstuna, SODERMANLAND PROV.,		
	242	A xiv	SWEDEN....	199	xii
Ernestown tp., ADDINGTON CO.			Estof, MALMOHUS PROV., SWEDEN.	199	xii
Beach in.....	241	A xiii	Esnagami (OR SHELL) lake, MAG-		
Plain in, altitude.....	222	x	PIE RIVER, L. SUPERIOR...	242, 250	v
Ernst, G. F.			Espanola, MERRITT TP., ALG.		
Manager, Gold Creek mine....	233	ii	Clay at, notes and photos....	22-24	B xv
Minto claim.....	141	x	Waterpower at.....	69	A xiv
Ernst farm, PEEL TP., WELLINGTON			Esperance chromium mine, NEW		
CO.			CALEDONIA.....	150	C xiv
Gas well in, log.....	110	A xv	Esperanza-Cobalt Mines Co.		
Erranhalli, Paprapatti dist, Burma.	233	viii	Capital and date of charter.....	29	A xvi
Erratics. See Boulders.			Esquesing tp., HALTON CO.		
Errington, Joseph			Brick clay in, boring for.....	59	xi
Manager, Massey iron mine..	56, 267	xi	works in.....	102	i
	52, 55, 79	A xiii	See also Milton.		
	41	A xiv	Lime kilns in. See Limehouse.		
Eruptive contacts.			Niagara limestone at, analysis...	58	B xiii
Probable cause of.....	160	vii	Esquimault and Nanaimo R'y.		
Erythrite (COBALT BLOOM).			Iron imports for construction of...	468	R C
Annaberg, Saxony.....	62, 89	B xiv	Essen, RHENISH-WESTPHALIA, GER-		
Cobalt dist.....	xi, 99, 100	A xiii	MANY.		
	12, 13, 18	B xiv	Gun works at. See Krupp.		
	11	A xv	Essex COLCHESTER TP., ESSEX CO.		
Bad Vermilion lake.....	74	iv	Brick yards in, notes on	63, 64	A xv
Description of.....	214	vi	Limestone in, notes by Miller...	41	B xiii
Dymond tp., with diabase.....	28	B xiv	Petition by, re gas export to De-		
Hardness of.....	201	vi	troit.....	41	xi
Ingram tp.....	29	B xiv	Water supply of.....	56, 57	i
Larder lake.....	218	A xvi			

	Page.	Vol.		Page.	Vol.
Essex co.			Euphemia tp., LAMBTON CO.		
Gas in, production.....	19	vii	Oil in.....	15	viii
1892.....	10	ii	boring for.....	90	A xiv
report by Stiff.....	42-44	xi	notes by Blue.....	5	v
Gypsum in.....	115	A xiv	records.....	21	vi
Limestone in, Clinton.....	4	i	production, 1900.....	25	v
Corniferous.....	25	B xiii	production, 1900.....	114	A xiv
Gas in, in Clinton formation.....	4	i	production, 1900.....	17	x
industry, 1895.....	28, 29	v	Euphrasia tp., GREY CO.		
1899.....	105	ix	Calcareous tufa in.....	110	B xiii
1902.....	38, 39	xii	Clinton formation in.....	48	B xiii
notes and logs.....	114-117	A xiv	Marl in.....	51	B xiii
by Director....	115-120	i	Niagara formation in.....	49	B xiii
Blast furnace in. See Olinda.			Euphrates river, ASIA MINOR.....	166	i
Brick yards in, notes on.....	63, 64	A xv	Eupyrchroite.		
Gas in, compared with that in			Crown pt., N.Y.....	441	R C
Welland co.....	106	ix	Eureka Mining Co.		
export of.....	28	iv	Capital and date of charter.....	8	vii
causes exhaustion...	22	A xiii	Silver Mining Co.		
90	90	A xiv	Capital and date of charter.....	29	A xvi
Oil in, boring for.....	18-24	vi	Europe.		
notes.....	19, 20	x	Armour plate in, paper by Blue.		
production, capacity.....	9	iii	141-144	ii	
Salt works in, number of, 1897..	24	vii	Arsenic occurrences in.....	101, 102	xi
1898..	17	viii	production.....	110	xi
co., MASS.			Copper production, 1880-87....	371	R C
Paisanite and sölvbergites.....	190	ix	Mining laws and regulations of..		
Standard Oil and Gas Co.			296-301	R C	
Wells shot by, for increased pres-			Peat deposits of.....	187-189	i
sure.....	106	ix	32, 33	A xiii	
Work by, 1895.....	29	v	notes.....	211	ii
Essonite. See Garnet.			manufactured in, notes. 197-200	xii	
<i>Estheria dawsoni.</i>			Roads of, cement foundation....	16	iv
Greens creek, near Ottawa.....	224	x	Technical high-schools in... 494-502	R C	
Esthonia prov., RUSSIA.			<i>Eurymus philodice.</i> See Clouded		
Peat in.....	216	ii	sulphur.		
Estremadura kingdom, SPAIN.			Euthydemus, KING OF BACTRIA.		
Concretionary form of phos-			Nickel employed by, for coin-		
phates in.....	441	R C	age.....	164	C xiv
"Ethel" ss.....	69	viii	Eva lake, EAST OF L. NIPIGON,		
Ethylene.	33	v	Th. B. D.		
Etna Iron and Pipe Mills.			Rocks on and near.....	119	A xvi
Labour employed by, statistics..	370	R C	Evans, A.	103	vii
Etobicoke river.			B. H.	122	vii
Hudson River formation on.....	126	B xiii	H. W.		
tp., YORK CO.			Work by, 1904.....	279	A xiv
Gas in.....	138	i	1905.....	285	A xiv
Utica formation in. See Mimico.			John D.		
Etomami river, ALBANY RIVER.			Assays by, of auriferous gravels,		
Iron ore near mouth of.....	23	R C	Vermilion river.....	152	x
Eton tp., R. R. D.			Assistant to Dr. Peters.....	139	C xiv
Agricultural land in.....	182	vii	Manager, Canadian Copper Co.'s		
<i>Eudocera multitubulatum.</i>			smelter.....	140	C xiv
Manitoulin islands... ..	84	B xiii	Stobie mine.....	245	ii
Eulytite (SILICATE OF BISMUTH).			Photo of.....	138	C xiv
Saxony.....	89	B xiv	Sudbury locations applied for by.	170	C xiv
<i>Euomphalus.</i>			J. W.		
Kwataboahegan river.....	186	A xiii	See also Evans No. 2 mine.		
photo, in limestone....	192	A xiii	Map by, of Sudbury deposits,		
" <i>de cewi.</i>			ref. to.....	192	ix
Cayuga N. tp.....	146	xii	R. B.	141	x
Hagersville.....	145	xii	74	xi	
" <i>rotundus.</i>			S. T.		
Port Colborne (near).....	36	xi	Part owner, Nickel Cliff mine... 286	xi	
<i>Eupatorium ageratoides.</i>			W. A.		
Abitibi Lake dist.....	241	A xiv	Brick-yard of, near Sudbury :		
" <i>purpureum.</i>			clay for, analysis.....	26, 27	B xv
Mattagami valley.....	151	A xv	Saugeen.....	20	B xv
			notes on.....	56, 57	B xv

	Page.	Vol.		Page.	Vol.
Evans, Walter	42	vi	Everton, ERIN TP., WELLINGTON CO.		
William C.			Guelph formation at.....	121	B xiii
Director, Marmora Foundry Co..	21	ii	Evje, CHRISTIANSAND STIFT, NOR-		
creek, MAGPIE RIVER, L. SUPE-			WAY.		
RIOR.			Nickel matte of, analysis.....	154	C xiv
Drainage area of.....	286	A xiv	mines.....	178, 179	iv
Minor ref. to.....	293	A xiv	ore, analysis.....	283	xii
Rocks on and near.....	314, 344	A xiv	Ewing, W.	141	x
Iron formation.....	327	A xiv	Excelsior gypsum mine, NEAR		
nickel mine, SNIDER TP., SUD-			CAYUGA, HALDIMAND CO.		
BURY DIST.			Idle, 1892.....	253	ii
Accident in.....	67	vi	1895.....	283	v
Actinolite in.....	292	xii	Notes on. 1891.....	241	i
Copper in, percentage of.....	378	R C	1893.....	197, 198	iii
Discovery of.....	134, 169	C xiv	1894.....	251	iv
Geology of.....	262, 263	xii	1896.....	279, 280	vi
Hills of, gossan-covered.....	101	C xiv	1897.....	99, 100	vii
Idle, 1891.....	230	i	Exeter, STEPHEN TP., HURON CO.		
1897.....	97	vii	Onondaga formation at.....	45	R C
1900.....	122	x	Salt Co.		
Inspector's report on, 1892.....	244	ii	Operating, 1902.....	38	xii
1893.....	184	iii	1905.....	21	A xv
1894..	244, 245	iv	1906.....	23	A xvi
1896..	275, 276	vi	Exhibitions.		
1898.....	34	viii	Buffalo. <i>See</i> Pan-American.		
1899.....	96	ix	Chicago. <i>See</i> World's Fair.		
Levels of, plan.....	262	xii	London, 1851, iron ore at.....	32-34	ii
Matte of, analysis.....	152	C xiv	lessons of.....	412	R C
Minor refs. to.....	433	R C	- 1862, iron ore at....	42, 43	ii
284, 285	xii		Paris, France, peat pamphlet		
Nickel oxide in, analysis.....	180	ii	prepared for.....	197	ii
proportion.....	378	R C	Philadelphia, 1876, nickel at....	381	R C
Notes on, by Bell.....	24	R C	135	ii	
Merritt.....	90	R C	Experimental farm, OTTAWA.		
Peters, jr.....	103, 104	R C	Tests at, on insecticides....	115, 116	xi
Opened up, 1885.....	137	C xiv	Exploration Company of Canada.		
Ore deposits of. character...	278, 279	xii	Capital and date of charter.....	29	A xvi
Pentlandite in.....	281	xii	Exter - ?		
16, 159	C xiv		Peat drying process of.....	193	i
Photo of.....	256, 257	xii	Eye-gate or Eye-stone. <i>See</i> Agate.		
Plan of.....	49	C xiv	Eye lake, SEINE RIVER DIST., R. R. D.		
Production of.....	156	C xiv	Gold mining near, 1897.....	67	vii
Railway to.....	136	C xiv	1898.....	91	viii
Rocks in, diabase.....	85	C xiv	1899.....	81	ix
gabbro, petrography...	296	xii	Saw mill on.....	105	x
norite.....	121	C xiv	Eye (OR DEER) river, SEINE RIVER,		
notes by Coleman....	48-50	C xiv	R. R. D.		
soapstone.....	81	i	Description of Seine river above		
Section of.....	49	C xiv	and below.....	149	v
Sulphides of.....	153	C xiv	Glacial striae on.....	89	v
No. 2 mine, SNIDER TP., ALG.			Minor ref. to.....	69	v
Notes on, 1904.....	72	A xiv			
Evansville, VANDEBURG CO., IND.					
Analysis of clay from.....	160	A xiii			
Evanturel tp., NIP.					
Rocks in.....	214	xi			
Evelyn tp., ALG.					
Glacial drift in.....	187	A xiv			
Evenden, H. W.	116	ix			
Evera, J. R. Van					
Gold mining by, Michipicoten					
div.....	113	ix			
Everett, H. L.	103	viii			
J. E.	24	viii			
W.	74	xi			
66	xii				
mine, PRINCE TP., ALG.					
Assays of ore from.....	60	R C			

	Page	Vol.		Page	Vol.
Fahlbands.—Con.			Fall creek, near Dog River, L. Su-		
Rainy River dist. :—			PERIOR.		
Lake of the Woods	110	vii	Minor ref to.....	282, 285	A xiv
notes by Coleman	118	vi	Rocks near	316	A xiv
Rainy Lake region	52	iv	cherts.....	317	A xiv
Fair—?	135	xi	iron formation.....	337	A xiv
Fairbairn, William (1835)	165	C xiii	Falls of Foyers, SCOTLAND.		
William (1902)	55, 56	xv	Calcium carbide made at.....	34	v
Fairbank, J. H.				31	vi
Evidence by, <i>re</i> oil wells.....	158, 159	R C	Falun, KOPPARBURG PROV., SWEDEN.		
Purchase by, of oil wells, Dawn			Iron smelting near.....	484	R C
tp.....	19	vii	Fanchot, S. P.	264	v
Consolidated Mining Co.			Fanning, G. H.	71	viii
Capital and date of charter.....	8	vii	T.	64	ix
Work by, Fairbank tp.....	225	i	pyrites claim, VERMILION	29	xii
(Washaigamog) lake, FAIR-			LAKE, NIP.		
BANK TP., SUDBURY DIST.			Notes on, by Fraleck.....	177	A xvi
Granite on	84	i	Faraday, Michael		
Nickel on.....	194	A xiii	Experiments by, on nickel alloy.	165	C xiv
Rocks of, nickel bearing eruptive.			tp., HASTINGS CO.		
analysis.....	23, 24	C xiv	Apatite in.....	194	ix
212, 213	A xiii		Corundum area of.....	216	viii
115-117	C xiv		Iron ore in.....	133	R C
petrography.....	209	A xiii	railway to develop.....	61	ii
Shores of, character.....	6	C xiv	Mispickel in.....	198	xi
Terrace N. of, altitude.....	103	C xiv	<i>See also</i> Jeffry mine.		
Fairbank tp., SUDBURY DIST.			Syenite in.....	226-229	vii
Coal-like specimens from.....	6	Bull. ii		245	viii
Galena in.....	105	R C	Farbaky, S.		
Gold in.....	92	i	Ref. to papers by, on magnetic		
mining, 1891.....	225	i	separation.....	340, 341	xii
1897.....	141	vii	Fargey and Rollins.		
prospecting	47	iii	Brick-yard of, Tweed	70	B xv
Maple in.....	105	C xiv	Farm land. <i>See</i> Agricultural land.		
Nickel in	194	A xiii	Farmers Loan and Trust Co.	146	iii
Road in, built by Govt.....	9	vi	Farnum, H. C.		
Rocks in.....	242	xii	Coe iron mine leased to.....	262	xi
nickel-eruptive.....	23, 24	C xiv	Iron bounties paid to, 1901.....	26	xi
Fairbanks, D. C. O. <i>See</i> next refs.			1902.....	25	xii
and Carman.			Manager for Mineral Range Iron		
Wells of, logs.....	110-115	A xiv	Mg. Co.....	260	xi
Work by, in Bothwell field	109	A xiv		77	A xiv
Rogers, H.				95, 97	A xv
Works of, Enniskillen tp., notes				16, 82	A xvi
by Blue.....	27	v	Farquahar lake, HARCOURT TP.,		
Fairchild, Prof. Herman L.			HALIBURTON CO.		
Ref. to work by, on Iroquois			Copper prospecting on.....	47	xi
Beach.....	233-235	A xiii	Farquharson, McLaughlin and		
Views of, on Iroquois beach.....	226	A xiii	Hartney.		
Fairview claim, NET LAKE, TIMA-			Marble quarrying by, Arnprior..	82	R C
GAMI REG., NIP.			Farr, C. C.		
Notes on, by Coleman	172	ix	Acknowledgments to.....	40	A xiv
Fairy lake, near ECHO LAKE, ALG.			Limestone quarry of, Haileybury,		
Antimony on.....	30	R C	analysis	87	B xiii
Falcon island, L. OF THE WOODS, R.				32	B xiv
R. D.			Statement by, <i>re</i> climate of Tim-		
Rocks on	117	vii	iskaming dist.....	107	iv
Falconbridge tp., NIP.			H. H.	149	A xiv
Boring in, for iron	51, 53	xii	creek, PETERSON LAKE, COLE-		
Drift in, photo.....	102	C xiv	MAN TP., NIP.		
Gabbro in.....	75	C xiv	Peterson lake drained into.....	81	A xv
Nickel range in.....	273, 276	xii	Farrell pyrites claim, MADOC TP.,		
	61, 115	C xiv	HASTINGS CO.		
Swamps in	7	C xiv	Notes on, by Fraleck.....	161, 163	A xvi
Terraces in	106	C xiv	Originally worked for gold.....	185	A xvi
Falconer, E.	129	vii	Farren lake, S. SHERBROOKE TP.,		
P.	103	vii	LANARK CO.		
Falding, F. J.	199	A xvi	Iron ore beneath.....	50	ii

	Page.	Vol.		Page.	Vol.
Farry, D.	128	xii	<i>Favosites turbinatum.</i>		
Farwell, William	97	vi	Abitibi river.....	187	viii
creek, PUKASKWA RIVER, L.			Anderdon tp.....	125	xi
SUPERIOR.			Cayuga, N. tp.....	146	xii
Rocks on.....	343 A	xiv	Hagersville.....	145	xii
Fasciono, Michel (Mike Fisher) ..	30 A	xv	Kwataboahagan river.....	181 A	xiii
Fauna. See the different species.			Port Colborne, near	35	xi
<i>Favosites.</i>			Rockford, Villanova, Woodstock;		
Kawanaska river (near)	186	xii	Walpole tp.....	143, 148	xii
Lac Seul.....	92	v	“ <i>winchelli.</i>		
Thedford.....	8, 75 B	xv	Kwataboahagan river.....	181 A	xiii
“ <i>basalticus.</i>			Faulke, William	100	ix
Anderdon tp.....	125	xi	Faulkner, Thomas	255	ii
Cayuga, N. tp.....	146	xii	Faults.		
Hagersville.....	145	xii	Cedar narrows, Pickerel lake....	62	iv
Kwataboahagan river.....	18 A	xiii	L. Superior, Keweenawan rocks.		
Port Colborne (near).....	35	xi	76, 77		iii
Rockford.....	145	xii	Michipicoten div., Helen forma-		
Villanova.....	143	xii	tion	311 A	xiv
“ <i>billingsii.</i>			Ste. Anne de Prescott	99 B	xiii
“ <i>emmonsii.</i>			Fauna. See Mammals.		
L. Superior, north shore.....	156	viii	Fawcett, William		
Port Colborne (near).....	35	xi	Gold mining by, Seine River reg.	157	v
“ <i>epidermatum.</i>			74		vii
Port Colborne (near).....	35	xi	Secretary, A D 2 Gold Mg. Co...	129	vii
“ <i>farosus.</i>			Fawn river, SEVERN RIVER, KEE.		
Villanova.....	143	xii	Limestone on	93	v
“ <i>gibsonii.</i>			Fay, J.	141	x
Kwataboahagan river.....	181 A	xiii	74		xi
photo of section of....	192, 193 A	xiii	Feather ore. See Jamesonite.		
“ <i>gothlandicus.</i>			Febrifuge.		
Ancaster	141	xii	Antifebrine, composition of.....	33	v
125 B		xiii	Corundum	230	viii
Gore Bay.....	77 B	xiii	Fee, G.	116	ix
Villanova.....	143	xii	Feigle gold mine, MARMORA TP.,		
“ <i>helderbergia.</i>			HASTINGS CO.		
Cayuga, N. tp.....	146	vii	Afterwards known as Sovereign		
Villanova.....	143	xii	mine	93 A	xiii
“ <i>hemisphericus.</i>			Evidence <i>re</i> before R. C.....	110	R C
Abitibi river.....	187	iii	Position of.....	28	R C
Anderdon tp.....	125	xi	See also Sovereign gold mine		
Cayuga, N. tp.....	146	xii	Feilitzen, H. Von		
Hagersville.....	145	xii	Experiments by, on moss-litter..	140	iii
Kwataboahagan river.....	181 A	xiii	Feldspar.		
Paris, Ont., near.....	91 B	xiii	Alumina a constituent of	173	i
Port Colborne, near	35	xi	Association of, with apatite...	438-441	R C
Rockford	148	xii	Birds Creek (near).....	288	viii
St. Marys, near	152	xii	Black hills, S. Dak., with colum-		
96 B		xiii	bite	237	vii
Villanova and Woodstock.....	143	xii	Bowman tp., Que.....	440	R C
“ <i>hemisphericus</i> var. <i>epidermatum.</i>			Building-stones containing.....	133	iii
Cayuga, N. tp.....	146	xii	Determination of.....	205	vi
“ <i>limitaris.</i>			Frontenac co.		
Cayuga, N. tp.....	146	xii	Bedford tp. mining and analysis.	26	x
Hagersville.....	145	xii	mining	39	xi
Villanova.....	143	xii	37, 137		xii
“ <i>nitellus</i> or <i>placensus.</i>			19 A		xv
Anderdon tp.....	125	xi	photo of open cut..	224, 225 A	xiii
Thedford, near.....	154	xii	Border mine	86 A	xvi
“ <i>polymorphus.</i>			mining, 1903.....	90 A	xiii
Abitibi river.....	187	viii	1904.....	81 A	xiv
Cayuga, N. tp.....	146	xii	1905.....	40, 102 A	xv
Paris, Ont.....	91 B	xiii	Richardson mine, notes and		
Rockford	143	xii	photo	85 A	
Woodstock	148	xii	Hardness of.....	448, 535	R C
“ <i>tuberosus.</i>			201		vi
Port Colborne (near).....	35	xi	Kingston dist., for pottery ...	205	ix
			Lynedoch tp., containing beryl..	235	vii

	Page.	Vol.
Feldspar. — <i>Con.</i>		
Mining of, notes on, 1902	136-138	xii
1903	21, 90 A	xiii
1904	81-83 A	xiv
1905	99-102 A	xv
Nepheline-syenite mistaken for	211	vii
Notes on varieties	224, 225	vi
	533	R C
Port Coldwell, analysis	147	vii
Specific gravity of	233	viii
Statistics of, 1900	11, 12	x
1901	13	xi
1902	12, 13, 37	xii
1903	3, 4, 21 A	xiii
1904	1, 3, 19, 81 A	xiv
1905	1, 20 A	xv
1906	3, 6, 21 A	xvi
United States, import duty on	295	xi
production	525	R C
aventurine		
Occurrences of	195	ix
porphyry.		
Michipicoten river, photo	160, 161	xi
Fell, R. N.	171	vii
Felsite.		
Madoc, petrographical notes	207	xi
schist.		
Wabigoon Lake dist.	183	vii
Felspar. See Feldspar.		
Fenelon Falls, FENELON TP., VICTORIA CO.		
Charcoal plant at	3 B	xiii
falls, CAMERON LAKE, VICTORIA CO.		
Trenton fossils from	113 B	xiii
tp., VICTORIA CO.		
Brick-yard in. See Rosedale.		
Fenestella.		
Hamilton	141	xii
Paris, Ont. (near)	92 B	xiii
Port Colborne (near)	36	xi
Stony pt., L. Huron	155	xii
Woodstock	148	xii
Fenian raid, The (1866).		
Effect of, on Bothwell oil field	23, 24	vi
Fennell, William.	276	vi
Fenton, F. A.		
Licence to	103	vii
Manager, Ophir g.m.	90	ix
Magnetic iron sand shown by, at World's Fair	79	ii
Notes by, on gas at Little Current	140	i
Thomas F.	515-521	R C
Fenwick tp., ALG.		
Gold mining in	59 A	xiv
See also Lucinda gold mine.		
Fera, James.	49	xi
Ferari, Basil.	39, 41 A	xiii
Ferdinandoberg, HUNGARY.		
Gasifying of wood at, for iron-smelting	484	R C
Fergus, NICHOL TP., WELLINGTON CO.		
Guelph formation at	45	R C
	121 B	xiii
Limekilns at	14 A	xiii
	122 B	xiii
Ferguson, F. W.	81	ii
H. A.	104	ix
John.	53, 57	xi

	Page.	Vol.
Ferguson, M.	48 A	xiii
R. G.	103	vii
William Douglas See Ferguson gold mine.		
bay, L. TIMAGAMI, NIP.		
Rocks on	172, 174	x
gold mine, SHOAL LAKE, SEINE RIVER.		
Examined by Angove	72	ix
Granite of	116	vi
	262	viii
Idle, 1897	75	vii
1898	273, 277, 281	viii
Notes on, 1896	5 Bull.	i
	56, 80, 259	vi
Office of, photo	95, 96	vi
iron mine, near ROBERTSVILLE, FRONTENAC CO.		
Notes on, 1899	104	ix
pt., TIMAGAMI LAKE, NIP.		
Iron pyrites near	169	x
quarry, ROSS TP., RENFREW CO.		
Character of stone in	103 B	xiii
tp., P.S.D.		
Copper claims in	116	xii
Mica mining in	279	v
Ferland, Arthur		
Part owner, Chambers-Ferland mine	5 A	xiv
Silver mining by, Cobalt	40 A	xiv
S.		
Lucky escape of	40 A	xiv
Fermont, QUE. See Radnor Forges.		
Fern.		
Mattagami valley	151	R C
Moose River basin	177 A	xiii
bracken.		
Abitibi dist.	218 A	xiv
Ferric oxide.		
Composition of	54 B	xv
Cure for arsenical poisoning by fumes	121	xi
Ferrie tp., PARRY SOUND DIST.		
Limestone in	93, 94 B	xiii
Pyrrhotite in	170	ix
Ferrier, Hon. James		
Of Montreal Mining Co	178	ii
President, Bruce mines	94	R C
W. F.		
Corundum discovered by, Carlow tp.	207, 208, 213, 224	vii
	207, 244, 250	viii
notes on same	61-66	vi
Minor refs. to	161, 185	ix
island, L. OF THE WOODS, R.R.D.	181	v
Ferris tp., NIP.		
Apatite crystals in. See Astorville.		
Ferro-nickel.		
Manufacture of, at Sault Ste. Marie	62	x
	66	xi
photo of works	96, 97	xi
Ferrous oxide.		
Composition of	54 B	xv
Ferrum lake, TIMAGAMI DIST., NIP.		
Jaspilite on : rocks on	172	x
Ferry point, MISSINABEE LAKE, ALG.	140	ix

	Page.	Vol.		Page	Vol.
Fertilizers.			Findlay, HANCOCK CO., OHIO.		
See also Apatite, Gypsum, Marl, Moss-litter, Phosphate, etc.			Cincinnati arch beneath.....	116	i
Canada, production, 1886, 1887..	243	R C	Oil and gas in.....	116, 117	i
Distribution of, notes by Blue.	177, 178	i	depth and pressure.....	155	i
Lime used in manufacture of....	3	B xiii	paper by Director, 1890.....	120-123	i
Peat for	211	i	Tre ton in, depth below tide....	113 A	xv
moss-litter, its value	187	vi	Gas Light and Coke Co.	121	i
notes by McFarlane.....	190	vi	Mining Co.		
Slag from Thomas-Gilchrist steel process for.....	91	ii	Capital and date of charter.....	29 A	xvi
Sulphuric acid for.....	197 A	xvi	Rolling Mills Co.	122	i
notes by Fraleck	193 A	xvi	Finlay, John		
Act.			Oil on farm of, Pelee island.....	25	v
Effect of, on superphosphate in- dustry.....	33, 34	vi	18	vi	
Philbrook, T. F.	44	ix	Finmark, N. OF CONMEE TP., TH. B.		
<i>Fiber zibethicus.</i> See Muskrat.			DIST.		
Fibroferrite.			Glacial striae near, direction....	89	v
Rainy River dist.....	198	ix	Gold mining near.....	86	vi
Fibrolite.			Iron ore near	47	v
Dryden tp.....	198	ix	Huronian near.....	84	v
Specific gravity of.....	233	viii	Railway from, to Matawin range suggested.....	84	v
Fidelity Gas and Oil Co.			Finn vein, FERGUSON GOLD MINE,		
Capital and date of charter.....	25 A	xv	SHOAL LAKE, SEINE RIVER REG.	5 Bull.	i
Fides, James	164	R C	80	vi	
Fields Crossing, GREY CO.			Fir balsam.		
Terraces near	177	ix	Kenogami valley and Nipigon Lake dist.....	112	iv
Fife, A. T.	72	xii	Fire (s).		
Fifteen-mile creek, WELLAND CO.			See also Forest fires.		
Beach gravels on.....	228 A	xiii	Boston, U.S., effect on granite buildings	134, 136	iii
Fifth Meridian, R.R.D.			Brunner peat works.....	32 A	xiii
Geology of	169-171	vii	Crown Point gold mine.....	79	x
economic.....	179	vii	Copper Cliff nickel mine.....	273	vi
Fighting Chance gold mine, SEINE RIVER DIST., R.R.D.			Delorogold mill.....	vi	vii
Felsite schists in	263	viii	21	viii	
Gold Mg. Co.			Deseronto, Rathbun Co's. plant..	120 B	xv
Capital and date of charter.....	9	ix	Effect of, on granite buildings.	134, 136	iii
Filer, E. G.	256	xi	El Diver gold mine.....	30	iii
85	xii		Fowler mansions, Gouverneur, N. Y.....	80	R C
Files.			63 B	xiii	
Canadian imports of, 1881-87.	250, 468	R C	Grace gold mine.....	72	xi
<i>Filices.</i> See Ferns.			Haileybury saw-mill.....	51 A	xvi
Filion, F. E.	105 A	xv	Kenora	170	v
91 A	xvi		Little Master gold mine.....	43, 58 A	xvi
S. O.	291	xi	Marlbank cement works.....	16	x
86 A	xiv		Ontario Corundum Co., plant...	75 A	xiv
Fimby, John	25	v	Ontario Smelting works.....	6 A	xiii
Finamacken, NORWAY.			69 A	xiv	
Schists of.....	306 A	xiv	141 C	xiv	
Financial Development Co.			Oxford Refining works.....	64, 65 A	xv
Operating Martha Mica mine....	23 A	xvi	Owen Sound Cement Co's. works.	17	iv
Finch, purple			Petrolea.....	165	R C
Abitibi dist.....	126 A	xiii	Pithy pt., Rainy lake, H.B.C.		
Finch, FINCH TP., STORMONT CO.			post.....	163	v
Marine deposits at.....	217	x	Regina g. m.....	184	v
Trenton near.....	48, 111 B	xiii	Sultana g.m.....	5, 235	v
tp., STORMONT CO.			Stella pyrites mine, N.Y.....	191 A	xvi
Limestone in, fossiliferous.....	40 B	xiii	Toronto and Hamilton Sewer Pipe Co's plant	19 A	xvi
Trenton.....	48, 111 B	xiii	West End Silver Mt. mine.....	5 A	xiii
Peat bog in	190	i	Firearms.		
198	ii		Canadian imports of, 1881-87....	250	R C
			Fire-box.		
			For peat fuel, sketch of.....	208, 209	xii

	Page.	Vol.		Page.	Vol.
Fire=clay.			Fisk, F. C.	83, 273	viii
Abitibi river.....	159	A xiii		242	x
analysis.....	160	A xiii	Fissure veins.		
Hudson River formation.....	118	iii	Definition of.....	253	v
Toronto (near), analysis.....	54	R C	<i>Fistulipora canadensis.</i>		
=damp.			Rockford; Walpole tp.....	143	xii
English coal-mines, accidents due to.....	199	iv	Fitch, Miss Alice F. D.		
=proof paint.			Photos by.....	128, 129	v
Made at Limehouse.....	79	R C	Fitzgerald, John		
=sand river, MICHIPICOTEN DIV., ALG.			Corundum mining by, Raglan tp.		
Description of.....	191, 192	vii	T.....	243	viii
Gold mining on.....	80	xii	.....	103	vii
Rocks on.....	146	viii	Fitzpatrick, Alfred	45	A xv
=steel river, SEINE RIVER, R. R. D.			H.	48	A xiii
.....	70	ii	R. Y.	49, 52	A xvi
First Quill lake, NEAR PIPESTONE LAKE, R. R. D.			bay, LARDER LAKE, NIP		
Keewatin rocks on.....	61	iv	Photo of.....	211	A xvi
Fischer, Otto			lake north of.....	204	A xvi
Calorific power of wood determined by.....	166	vi	Quartz vein on, photo.....	214	A xvi
Fish.			Rocks on.....	207, 210, 213	A xvi
<i>See also</i> the different species.			Fitzroy Harbour, FITZROY TP., CARLETON CO.		
Abitibi dist.....	127	A xiii	Cambro-Silurian at.....	38	B xiii
.....	242, 253	A xiv	tp., CARLETON CO.		
Hudson and James bays.....	133	iv	<i>See also</i> Fitzroy Harbour.		
Lake of the Woods.....	97, 98	vi	Galena in.....	198	ix
exhaustion of supply.....	167	v	Mineral water at, analysis.....	204	ix
Lake Superior. <i>See</i> Fishing industry.			Fitzwilliam, Earl.	22	i
Larder Lake dist.....	221	xi	island, L. HURON.		
Mattagami River reg.....	117, 131	A xv	Building stone on.....	93	i
Kamiskotia lake.....	119	A xv	limestone.....	76	B xiii
Michipicoten div.....	206	vii	Five Acre gold mine, MARMORA TP., HASTINGS CO.		
.....	297	A xiv	Notes on, 1902.....	110	xii
.....	200	A xv	<i>See also</i> Atlas Arsenic Co.		
Nipigon Lake region.....	110, 139	A xvi	Flagstones. <i>See</i> Paving stones.		
Rainy Lake dist.....	44, 97	iv	Flaherty, R. H.		
Timagami Lake region.....	58	R C	Acknowledgments to.....	105	A xvi
.....	161	x	Boring by, for iron, Nipigon L. dist.	265	xi
Island, L. OF THE WOODS, R. R. D.			.....	127	A xvi
Gold mining on.....	233	ii	Sturgeon river.	311	xii
Fisher—?			Iron mining and prospecting by:		
Assay by, of iron ore from Belmont tp.....	60	ii	Atikokan dist.....	266	xi
Mike <i>See</i> Fasciono, Michel			.....	43	A xiii
Thomas W.			Loon lake.....	254	A xiv
Foreman, Belmont gold mine.....	47, 48	x	Port Arthur dist.....	156	A xv
.....	53, 236	xi	analysis of ore.....	168	A xv
.....	112	xii	Manager, Burley g.m.....	46, 52	viii
W. G.	43, 45	A xiii	(resigned).....	42	ix
and McQuesten.	326	R C	Foley g. m.....	260	vi
OR Black cat.			.....	68	vii
Abitibi dist.....	178, 193	viii	Golden Star g. m..	265-267	viii
.....	189	xii	.....	66, 68	ix
.....	127	A xiii	.....	79, 80	x
Hinterland, The.....	133	iv	Yum Yum g. m.....	51	vii
lake, MICHIPICOTEN DIV., ALG.			Steamer built by, on Nipigon lake.	106	A xvi
Rocks near.....	205	A xv	Flaherty, Dr. R. H.	56	xi
Fisher's mills, HUMBER RIVER.			Flanagan, J.	103	vii
Hudson River limestone at.....	126	B xiii	.....	116	ix
Fishhook lake, MICHIPICOTEN DIV., ALG.			.....	141	x
.....	293	A xiv	Flamborough tps., WENTWORTH CO.		
Fishing industry.			Boring in, for gas. <i>See</i> Dundas.		
L. Superior.....	147	viii	Limestone in.....	124, 125	B xiii
Michipicoten div.....	13	Bull. iii	Niagara.....	58	B xiii
.....	128	viii	Medina and Clinton formations in.	57	B xiii
			<i>See also</i> Waterdown.		
			Flame.		
			Colour of, affected by minerals..	449	R C
			Flange-steel.		
			Paper on, by Sperry.....	190-194	iv

	Page.	Vol.		Page.	Vol.
Flash tests of oil.	163, 164	R C	Flint.		
Flashing.			Definition of.....	166	x
In brick-burning, notes by Baker.			Occurrences of.....	198	ix
	54-56	A XV	United States, production.....	525	R C
Flashpoint island, NORTHEAST OF			glass. See Glass.		
LACLOCHE ISLAND, L. HURON.			lake, L. OF THE WOODS REG.,		
Gold and copper on.....	114	R C	R. R. D.		
Flat=rock fall, SEINE RIVER, R. R. D.			Gold mining in, 1901.....	255	xi
Photo of.....	224, 225	x	1902.....	94	xii
portage, SOUTH BAY, NIPIGON			Shape of.....	89	vi
LAKE TH. B. D.			Lake Gold Co.		
Rocks on, notes and photos.....	133, 134	A xvi	Capital and date of charter.....	9	xii
rapid, MONTREAL RIVER, NIP.			Claim of, photo.....	48, 49	A xiii
Hematite from.....	15	A XV	Work by, L. of the Woods, 1901.....	255	xi
Flea=bane.			1902.....	94	xii
Abitibi dist.....	253	A xiv	1903.....	63	A xiii
Fleck, A. W.	23	A xiv	Flinton, ANGLESEA TP., ADDINGTON		
Fleitmann, Dr. Thomas			CO.		
Tests by, on nickel.....	183	iv	Mispickel near.....	105	xi
Fleming, S. E.	116	ix	Rock near, notes by Miller.		
	141	x	200, 201, 207	xi	
	74	xi	Flintridge, GREENWOOD CO., KAN.		
S. H.			Paving clay from, analysis.....	120	ii
Director, Black Donald Graphite			Floating-heart creek, L. SUPERIOR,		
Co.....	24	x	TH. B. D.		
President, Ontario Graphite Co..	31	v	Agricultural land along.....	296	A xiv
	38	vi	Drainage area of.....	285	A xiv
Sir Sandford			Fault at headwaters of.....	311	A xiv
Description by, of Woodland div.,			Iron formation near.....	336	A xiv
C. P. R.....	109	iv	Minor refs. to.....	285, 292	A xiv
Ref. to paper by, on beach N. of			Rocks on.....	316	A xiv
Toronto.....	225	A xiii	lake, NORTH OF L.		
Phosphate Co.			SUPERIOR, TH. B. D.		
Operating in Portland tp.....	240	i	Minor ref. to.....	285, 292	A xiv
Flemming, Peter			Rocks on.....	349	A xiv
Accident to.....	24	ix	Floating islands.		
Experience of, as well-borer....	127	i	L. of the Woods.....	109	vi
Flesherton, ARTEMESIA TP., GREY CO.			Floods.		
Terrace near, altitude.....	177	ix	Schneeberg, Saxony.....	75	B xiv
Fletcher, H.			Floors.		
Copper mining by, Michipicoten			Construction of concrete, rules for.	180	A xiv
div.....	60	R C	Flora.		
Dr. James			Abitibi Lake dist.....	242, 243, 253	A xiv
Formulae of insecticide recom-			Mattagami valley.....	150, 151	R C
mended by.....	117	xi	149-151	A XV	
John	90	A XV	Moose River basin.....	177	A xiii
Fletcher, RALEIGH TP., KENT CO.			Moose Factory.....	107	iv
Flett, John.....	78	x	Rainy Lake dist.....	95	iv
Flicker or Yellow=hammer.			Florence, DAWN TP., LAMBTON CO.		
Abitibi dist.....	126	A xiii	Oil near, discovery.....	18	vii
Flies, black			gold mine, MICHIPICOTEN DIV.,		
Abitibi dist.....	190	viii	ALG.	101	viii
Notes by Jarvis.....	127, 128	A xiii	Mining Co.		
Lake Superior, north shore.....	147	viii	Capital and date of charter.....	29	A xvi
Pukaskwa harbour.....	133	viii	Florida, U. S.		
Mackenzie creek, Little Wabi-			Apatite deposits of.....	178	i
goon lake.....	54	v	depress prices.....	238	i
Michipicoten div.....	171	ii	Sulphur industry in.....	199	A xvi
	101	viii	Flour-mills.		
Mississagi river.....	172	xii	Keewatin, L. of the Woods.....	53	vi
Montreal river.....	53	A xvi	Flower, LAVANT TP., LANARK CO.		
house			Mica schist between, and Lavant.	101	B xiii
Timagami Lake reg. (February).	58	R C	Floyd - ?	53	v
sand			Silver Mines Ltd.		
Abitibi dist., notes by Jarvis....	128	A xiii	Capital and date of charter.....	28	A xvi
Lake Superior, north shore.....	133, 147	viii	Fludyer, Charles		
Mackenzie creek, Little Wabi-			Evidence by, re royalties in Corn-		
goon river.....	54	v	wall, Eng.....	33	i
Flinn, P.	43, 48	xii			

	Page.	Vol.		Page.	Vol.
Fluo-hydric acid.			Foley Bros.		
For etching on glass.....	447	R C	Acknowledgments to.....	60	xii
Fluor island, NIPIGON BAY, L.			Glendower iron mine worked by.	227	v
SUPERIOR.			Gold mining by, Round lake....	118	v
Fluorite on.....	198	ix	Helen iron mine operated by.	54, 67, 71	xi
Fluorspar or Fluorite.			gold mine, NEAR MINE CENTRE,		
Apatite districts.....	442	R C	R. R. D.		
Crystals of, exhibited at World's			Accident at, 1897.....	31	vii
Fair.....	187	ii	1898.....	23, 24	viii
Description of.....	533	R C	1900.....	44	x
Determination of.....	205, 222	vi	Depth of, 1898.....	35	ix
Hardness of.....	448, 535	R C	Granite in.....	116	vi
	201	vi	altered.....	87	v
	214	vii	Idle, 1898..	84, 274, 277, 281	viii
Lake Superior.....	194	ii	Notes on, 1896.....	5 Bull. i	
copper-bearing rocks.....	131	vi	54-56, 81, 260, 261	vi	
Nipigon bay.....	198	ix	1897.....	129	vii
Madoc (near), mining.....	106 A	xv	1898.....	68-70	vii
Ross tp.....	198	ix	1900.....	81, 82, 94, 95	x
Silver Mountain dist:			1901.....	243	xi
Rabbit Mt. mine.....	57 B	xiv	by Blue.....	157-159	v
with silver.....	198	R C	Coleman.....	66, 67	v
Specific gravity of.....	202	vi	Photos of.....	96, 97	vi
United States, production, 1888..	525	R C	Report on, by H. V. Winchell.		
Flux.			228-230	iv	
Quartz for, Sudbury dist.....	26 A	xvi	Sale of, to English Co., pending.	7	vii
Treatment of, for iron ores.....	479	R C		21	viii
Flying-loon lake, R.R.D.			Section of.....	69	vii
Geology of, and vicinity.....	163-165	vii	Vein of, character.....	262	viii
Pleistocene deposits near.....	173	vii	iron mine, BATHURST TP.,		
Rocks near.....	176	vii	LANARK CO.		
Post, MATAGAMING LAKE, ALG.			Apatite, calcite and diorite in.....	51-54	ii
Iron ore near.....	9 A	xiii	Iron ore in, character.....	45-48	ii
Minor ref. to.....	132, 133	ix	titaniferous.....	51	ii
Rocks on route to, from Biscota-			Limestone in.....	46	ii
sing.....	106	xii	Mines Co.		
brook, MISSINAIBI RIVER, ALG.			Formation of, and capital.....	8, 55	vii
	139	ix	pyrites mine, N. OF ENTERPRISE		
Flynn, M. J.			STATION, BAY OF QUINTE R'Y.		
Manager, Richardson corundum			Notes on, by Fraleck.....	164, 165 A	xvi
mine... 101 A	xv		tp., PARRY SOUND DIST.		
feldspar			Cobalt in.....	93	vii
mine... 54 A	xiii		Copper in.....	93	vii
	89 A	xiv	mining.....	167, 168	ix
	39, 41 A	xv		116	xii
	85 A	xvi	prospecting.....	261	viii
F M 131, 132 gold locs. See Anglo			See also McGown mine.		
Canadian Gold Estates.			Gold mining in:—		
145 gold loc. See Gold			notes by Coleman.....	98-100	iv
Sun mine.			See also McGown m.		
206 gold loc. See Sulli-			VanKoughnet m.		
van, Alan			Iron in, boring for.....	44, 45 A	xiii
207 gold loc., STURGEON			Limestone in.....	94, 95 B	xiii
LAKE, TH. B. D.....	87	xii	Nickel in.....	93	vii
Fogg, S. G.....	82	ii	Folger, B. W.		
Foley, James			See also Amy and Folger mica mine.		
See also Foley Bros			Evidence by, before R. C. re:—		
Part owner, Gold Mountain mine.	187	v	cost of producing iron.....	391	R C
Foley, John			free-trade.....	223	R C
Manager, Breitung Iron Co.....	263	xi	iron properties, Kingston dist.	135	R C
See also Foley Bros.			ref. to.....	58	ii
Joseph C.			Interested in Calabogie Co.....	136	R C
Gold mining by, near Mine			Manager, Tip Top copper mine..	275	xi
Centre.....	228	iv	Henry		
	65, 157-159	v	See also Hammond, James		
	55, 81, 260-263	vi	Interested in Hammond Gold-		
	68, 69	vii	Reef mine.....	64	vii
	23	viii		76	ix
	243	xi			
Manager, Avon gold mine.....	58 A	xiv			

	Page.	Vol.		Page.	Vol.
Folger, Henry—Con.			Forest fires.—Con.		
Interested in Tip Top copper mine.....	86	ix	Lac des Mille Lacs.....	136	v
M. H.....	275	xi	Lac Seul.....	61	v
W. M.....	178	iii	Lake of the Woods, Sultana island.....	14	iii
Nickel-steel employed by, for ordnance.....	168	ii	Mann tp.....	227 A	xiv
Bros.			Mattagami valley.....	193, 194 A	xiv
Iron prospecting by, Matawin range.....	67-69	ii	124, 140 A	xv	
Mills, S. D. employed by.....	99	ii	Methuen tp.....	209	viii
Hammond Mines Co.	9	vii	Michipicoten div.....	12 Bull.	iii
(See also Hammond Reef gold mine).....	76	ix	206	vii	
Folgerite.			296 A	xiv	
See also Whartonite.			Helen mine, near, photo....	64, 65	xi
Composition of.....	170	ii	Manainse pen.....	72	iii
Exhibited at World's Fair.....	192	ii	Mining industry affected by....	262	R C
Sudbury dist.....	281	xii	Minnitaki lake.....	172	vii
160 c	xiv		Missinaibi valley.....	139, 142	ix
McDonnell m.....	180	ii	Mississagi river.....	167, 168	xi
Worthington m., notes by Emmens.....	167, 168	ii	Moose River basin.....	120	iv
Foljambe —?	22	i	177 A	xiii	
Folk lore. See Indian superstitions.			Nivens base line, Alg.....	141, 142	ix
<i>Fontinalis</i> (fossil moss).			Opasatika river.....	256	v
Ottawa (near).....	225	x	Pishkanogama valley.....	135	ix
Fool's gold. See Iron pyrites.			Prevention of, in mineral dists..	307	R C
Foot, Dr. A. E.			Rainy Lake dist., intensity of.	44, 96, 97	iv
Description by, of sphene, Egansville.....	209	ix	Raglan tp.....	223	viii
Ref. made by, to zircon in Sebastopol tp.....	212	ix	Rice lake, north of.....	131	ix
Zonochlorite described by.....	212	ix	Seine River dist.....	139, 140	v
Forbes, George	52, 57	xi	74	vi	
Robert			Atikokan river.....	142, 144	v
Director, Parry Sound Copper Mg. Co.	100, 164	ix	Brulé lake.....	137	v
Manager, McGown copper mine.	259	viii	Sabawe lake.....	73	v
William	76	viii	Steep-rock lake.....	72	v
Ford, Charles			Turtle river.....	127	vii
Gold mining by, Wanapitei Lake dist.....	140	vii	Windigoostigwan lake.....	137	v
W. H. & Co.			Spanish river.....	125	ix
Notes by, on trap-rock from Bruce Mines.....	14	v	Sudbury dist.....	106 c	xiv
Foreman of mines.			Onaping lake, near.....	154	x
Qualifications of.....	29	viii	Thunder Bay dist.....		
Forest.			notes by Blue.....	205	v
Conservation of, notes by Blue..	206	v	Pigeon River dist.....	146	ix
Occurrences. See Trees.			Shebandowan lake.....	117	v
R. W. and William			of Dean, ENGLAND.		
Of McArthur Forest process See Cyaniding.			Royalties in.....	38	i
Forest, PLYMPTON TP., LAMBTON CO.			Reserve Mg. Co.		
Boring in, for water.....	59	i	Capital and date of charter.....	28 A	xvi
fires.			Forgings. See Castings and Forgings.		
Algoma dist., notes by Blue and Macdonald.....	206	v	Forks, The, KENOGAMI RIVER, ALG.		
Blanche River region. 215, 216, 222,	223	xi	Rocks in vicinity of.....	32 B	xiii
Causes of.....	xx	R C	of Credit. See Credit Forks.		
177 A	xiii		Formation.		
Chapleau, near.....	132, 141	ix	Definition of term.....	3, 534	R C
Cobalt lake, photo.....	72 B	xiv	Formosa, CARRICK TP., BRUCE CO.		
Destruction by.....	53	i	Boring at, for gas, proposed.....	21	x
Eby tp.....	179	xii	<i>Fornax ledensis.</i>		
Effects of, on copper ores.....	197	ix	(Greens creek, near Ottawa.....	224	x
Fourth base line, R. R. d.....	181	vii	Forneri, C. C.		
			Ilomer tp., surveyed by.....	138, 139	viii
			S. S.		
			Manager, Eldorado gold mine...	53 A	xv
			Part owner, Baden Powell mine.	96	x
			54 A	xv	
			Forster, John H.		
			Ref. to history by, of Silver islet.	142	vi
			Forsyth, — (?)	198	v
			& Co.		
			Iron mining by, Hull, Que.....	34	ii

	Page.	Vol.		Page.	Vol.
Forsythe—(?)	58	xii	Fort Mattagami, MATTAGAMI LAKE,		
Island, ST. LAWRENCE RIVER.			ALG.		
Granite quarrying on.....	296, 297	xi	Altitude of.....	181	x
Fort Albany, ALBANY RIVER, KEE.			Fur trade at, 1903.....	127 A	xiii
Building of, date.....	196	v	1904.....	242 A	xiv
Mission at.....	192	viii	1905.....	131, 151 A	xv
Summer temperature at.....	106	iv	Indians at, photos.....	128, 129	ix
Caministoygan, KAMINISTIK-			Insects at.....	129 A	xiii
WIA RIVER, TH. B. D.	197	v	Jackpine plain at, photo.....	219 A	xiv
Charlotte, PIGEON RIVER, TH.			Minor refs. to.....	121 A	xiii
B. D.			116 A	xv	
Historical notes on.....	198	v	Photo of.....	128, 129 A	xiii
Churchill, HUDSON BAY, KEE.			Route to, from Metagama, des-		
Harbour of, notes on.....	132	iv	cription.....	125-127	ix
Limestone near, fossiliferous....	85 B	xiii	185	x	
Sandstone at.....	86	i	Michipicoten, L. SUPERIOR,		
Erie, BERTIETP., WELLAND CO.			ALG.....	192, 193	v
Natural gas delivered to.....	44	xi	Payne, ALABAMA	146	iii
21, 91 A	xiv		Pitt Iron Works, PITTSBURG.		
Frances, RAINY RIVER.			Labour employed at, statistics... 370	R C	
Appearance of.....	43	iv	Rouille, NOW TORONTO.		
Country between, and Mine			Date of building.....	196	v
Centre, notes by Blue.....	160, 161	v	For other refs. <i>See</i> Toronto.		
Escarpment near, description... 91	v		St. Pierre, NOW PITHER PT.		
Fossils near.....	147	xi	Built by Verandrye.....	197	v
Half-breed of.....	98	iv	Historical notes.....	162	v
History of, by Langevin.....	162	v	For other refs. <i>See</i> Pither pt.,		
Indian reserves at, area.... 167	v		William, KAMINISTIKWIA		
Iron ore near.....	135	xi	RIVER.		
in sandstone.....	184	ix	Agricultural land near.....	207	v
petrographical notes. 143	xi		Bricks, at, price of, 1903.....	15 ¹ A	xiii
Lock at.....	65	R C	Historical notes on.....	198, 199	v
Nomenclature of.....	40	iv	Magnetite near.....	299	xii
Notes on, by Blue.....	161	v	Railway from, to Atikokan range,		
Peat plant erected at.....	23 A	xiv	projected.... 133	v	
Photo of sketch of, 1857.....	80, 81	v	Winnipeg, opened '83. 171	v	
Rocks at and near:—			Rocks at, and near:—		
conglomerates, description... 152	vii		iron formation..... 114 A	xvi	
Couchiching.....	158, 165	viii	notes by Coleman.....	150	ix
notes by Coleman.. 153	vii		Route to, from Windsor, notes		
petrography.....	80	iv	by Blue.....	106-112	v
quartz-diorite.....	78	iv	Time at, set back.....	113	v
sandstones, notes.....	183, 184	ix	Wrangel, ALASKA.		
Site of, beautiful.....	197	v	Garnets from... 228	vi	
Waterpower at.....	14 A	xv	York. See York Factory.		
Hematite Co.			Fortune, W. F.	87	viii
Capital and date of charter.....	9	xii	Forty-mile creek, LINCOLN CO.		
Mining Co.			Limestone quarries on.....	97	i
Capital and date of charter.....	9	vii	<i>See also</i> Grimsby.		
Mining div.			river, JAMES BAY, NIP.	192	viii
Creation of.....	36 A	xvi	Fossils.		
Description of.....	44 A	xvi	Abitibi river.....	187-189	viii
Frontenac, NOW KINGSTON.			Jawbone creek.....	182	viii
Date of building.....	196	v	Beachville (near).....	92 B	xiii
For other refs. <i>See</i> Kingston.			Bertie tp.....	119 B	xiii
Holmes, L. HURON, U. S.	109	v	Bosanquet (Hamilton formation) 422	R C	
Hope, EABAMET LAKE, KEE. ... 192	viii		Brockville, near, shells.....	242 A	xiii
Island, L. OF THE WOODS, R.			Cambrian, notes by Bell.....	31	R C
R. D.			Cobourg (Trenton).....	40 B	xiii
Photo of H. B. C. post on... 128, 129	v		Corniferous formation.....	46	R C
Matachewan, MONTREAL			Desjardins canal and Dundas bay.		
RIVER.			228, 229 A	xiii	
Barley grown at.....	57	R C	Don river.....	230 A	xiii
Glacial deposits near.....	183	vi	Emerald lake, Nip.....	87 B	xiii
Photos of.....	184, 185	viii	Fort Frances, near.....	147	xi
Route to, from Black river... 110 A	xiii		Hamilton (Niagara).....	423	R C
Vegetables grown at.....	240 A	xiv	(sponges).....	141	xii
			James Bay (Niagara).....	44	R C
			(shells).....	143 A	xiii

	Page.	Vol.		Page.	Vol.
Fossils.—<i>Con.</i>			Fostoria, SENECA CO., OHIO, U. S.		
Kawanaska river, near	186	xii	Gas supplied to, from Findlay...	123	i
Kwataboahagan river, paper by			Foullon, Baron von		
Parks	180-191	A xiii	Refs. to work by, on Sudbury		
Lac Seul	92	v	ores.....	3, 11, 16, 52	107 c xiv
Lake Superior, north shore	156	viii	Views of, <i>re</i> Sudbury deposits...	278	xii
Manitoulin island	86	i	Foundry iron. See Iron.		
	84	B xiii	Fountain lake, MOSS TP., TH. B. D...	120	v
Gore bay	77	B xiii	Fouque, F. A.....	227	vii
Maryville, near	44	B xiii	Fourteen Island lake, LOUGH-		
Mattagami valley, in erratics....	135	A xv	BOROUGH TP., FRONTENAC CO.		
Missinaibi river	162	A xiii	Feldspar mining on.....	138	xii
Nassagaweya tp.....	57	B xiii	Fournier, H. A.....	103	vii
New Caledonia, insects.....	149	ix		66	xii
Ogdensburg, N. Y.....	242	A xiii		48	A xiii
Ontario, marine beaches.....	216-227	x	iron mine, N. CROSBY TP.,		
southwest, paper by			LEEDS CO.		
Parks	141-156	xii	Metallic iron in, percentage of...	45	ii
Ottawa	32	B xv	Minor ref. to.....	44	ii
Port Colborne (corals).....	14	B xiii	Notes on, by Morris.....	137	R C
(Corniferous).....	35	xi	Vennor.....	50	ii
Post-Tertiary deposits, notes by			Fourth base line, R. R. D.		
Bell	50	R C	Geology of.....	166-169	vii
Potsdam formation.....	40	R C	meridian line, R. R. D.		
Prince Edward co.	27	B xiii	Geology of.....	164-166	vii
St. Marys, near.....	96	B xiii	Fowke, George W.....	51	xii
Saxicava sand, list of.....	32	B xv	Fownes, George		
Thedford (Devonian).....	8, 32, 75	B xv	Cyanogen discovered by.....	142	iv
notes and species.....	69	B xiii	Fowle, J. C.		
Thorold	117	B xiii	Ref. to treatment by, of iron ore.		
Toronto	230	A xiii	Mich.....	339	xii
Trent river	89	B xiii	Fowler, James.....	216	i
Value of, to a Survey.....	422	R C	Dr. Joseph.....	60	ix
Victoria co. (Trenton).....	113	B xiii		47	A xiv
Foster, A. B.....	103	vii	mansion, GOUVERNEUR, N. Y.		
Dr. Albert			Limestone of, quality.....	80	R C
Oil on farm of, Mersea tp.....	116	A xiv		63	B xiii
C. A. See Foster silver mine.			Fowls (hens).		
Hon George E.....	46, 80	viii	Eggs of, hatched by Gulls,		
	101	x	Caribou island	132	viii
J. J.....	55	vii	Fox.		
Joseph C.....	221	viii	Abitibi dist.....	193	viii
LeNeve			Hinterland, The.....	133	iv
Quotation from, <i>re</i> nickel.....	178	iv	Michipicoten div.....	297	A xiv
Visiting Canada, with Brit. Ass'n.	144	vii	Nipigon Lake dist. (reported)...	139	A xvi
O. E.	44, 68	viii	Timagami Lake dist.....	58	R C
S. P.	118	B xv	Fox, C. B.		
William.....	29	iv	Analysis by, of Sudbury rocks ..	117	c xiv
Cobalt Mg. Co.			Notes by, on limestone used by		
Capital and date of charter	28	A xvi	Hamilton Steel and Iron Co....	13	B xiii
Dividend paid by, 1906.....	13	A xvi	Edwin W.....	143	ii
Minor ref. to.....	84	A xv	James		
<i>See also</i> Foster silver mine.			Iron mining by, Madoc tp.....	31	viii
lake, CARLOW TP., HASTINGS			John		
co.			Operating salt, Park Hill	111	ix
Corundum near.....	221	viii	S. J.		
Crystalline limestone on.....	222	viii	Brick works of, notes and		
Hills around, notes.....	220	viii	photos.....	100-102	B xv
rapid, YORK BRANCH RIVER.			gold mine, MADOC TP., HAST-		
Corundum near.....	84	A xvi	INGS CO.	111	R C
Marble from, analysis	65	B xiii	lake, L. OF THE WOODS REG., R.		
Position of.....	221	viii	R. D.....	60	ix
silver mine, COBALT DIST., NIP.			lake, NEAR ROSSPORT, TH. B. D.		
Bismuth from.....	45	A xv	Nickel mining near.....	109	x
Fire at.....	52	A xvi	rapid, NETTOGAMI RIVER, MOOSE		
Notes on, 1905	84, 85	A xv	RIVER.		
Position of.....	7	A xv	Description of river near.....	137	A xiii
Profits of, supply plant...	9	A xv	tp., NIP.....		
Shipping, 1905.....	15	B xiv	Soil and timber in.....	126	A xv
1906.....	8	A xvi	glacial drift.....	127	A xv

	Page.	Vol.		Page.	Vol.
Foxton, Fred			France.—<i>Con.</i>		
See Devil Lake mica mine.			Mining laws of.....	296	R C
Foxton, James and Bros.			schools in.....	420, 497-499	R C
Foxton apatite mine.			Nickel coinage in.....	164	C xiv
James			imports of, 1893-98.....	215	viii
See also Foxton, James and Bros.			plating in, process of.....	158	ii
Foxton apatite mine.			Ochre producers, largest.....	170	A xvi
Evidence by, <i>re</i> apatite in Lough-			Peat in, notes on.....	212	ii
borough tp.....	53, 171	R C	Phosphate in.....	441	R C
James and Bros.			Frances Gold Mines, Ltd.		
Mica mining by, Sydenham.....	249	ii	Exhibits of, at Buffalo.....	25	A xv
apatite mine, LOUGHBOROUGH			iron mine, PAINT LAKE, MICH-		
TP., FRONTENAC CO.			PICOTEN DIV.		
Banded structure of veins in....	439	R C	Boring at, with diamond drill..		
Gypsum in.....	199	ix	62, 63, 104.....	xii	
Notes on, 1891.....	239	i	Canoe routes to.....	289, 290	A xiv
1892 (idle).....	251	ii	Idle, 1903.....	47	xiii
by J. Foxton. 53, 171, 172		R C	Minor ref. to.....	285	A xiv
Merritt.....	168	R C	Notes on, 1901.....	71, 95	xi
G. Richardson.....	170	R C	by J. M. Bell.....	328, 329	A xiv
Section of.....	168	R C	Rocks at and near.....	302, 303, 314, 315	A xiv
Selenite in.....	208	ix	Trough near.....	339	A xiv
Wilsonite in.....	212	ix	Francis, G. F.		
Phosphate Mining Co.			Gold mining by, Michipicoten		
Capital and date of charter.....	8	vii	div.....	66, 80	xii
Foy, Charles.	54	A xiii	Licence to.....	141	x
Hon. James Joseph			74.....	xi	
Transmittal letter to and from,			66.....	xii	
1902.....	xv, xvi	A xiv	48	A xiii	
tp., SUDBURY DIST., NIP.			J. B.		
Rocks in.....	274	xii	On water power in manufactur-		
nickel-bearing eruptive.....	213	A xiii	ing.....	485	R C
offset deposits.....	50, 63, 70, 114	C xiv	Franco Belge Iron Co. (SPAIN).	121	ii
Fragaria vesca.			Frank J. G.	103	vii
Abitibi dist.....	241	A xiv	C. G. & Sons.		
" <i>virginiana.</i>			Brick-yard of, Strathroy.....	79	B xv
Abitibi Lake dist.....	241	xiv	Frankford, SYDNEY TP., HASTINGS CO.		
Mattagami valley.....	150	A xv	Iroquois beach near.....	232	A xiii
Fraleck, E. B.			Frankland, Sir Edward	492	R C
Evidence by, before R. C. <i>re</i> :—			Franklin, Joseph	133, 134	x
gold in Madoc tp.....	111	R C	126.....	xii	
slate in ".....	87, 88	R C	co., KAN.		
technical education.....	427	R C	Paving clay from, analysis.....	120	iii
Manager for Br. Am. Pyrites Co.	79	A xiv	station, LANARK CO.		
Mica mining by, Loughboro tp..	92	A xiii	Corundum mining near.....	38	xi
Reference to surveys by, Matta-			Rocks near.....	217	x
gammi river.....	181	A xvi	Franklinite.		
Report by, on Iron Pyrites in			Madoc tp.....	198	ix
Ontario.....	149-201	A xv	Magnetic permeability of.....	324	xii
ref. to.....	20	A xv	Franks, William J.		
22	A xvi		Gold mining by, L. of the Woods	25	iii
Franc, S. F.	42, 73	viii	Fransen, John, August and Eric ... 163		v
France.			Fransewa landing, YORK BRANCH		
Armour plate trials in.....	155, 162	iii	RIVER.....	131	x
198.....	iv		Frasch, Hans A.		
"Balance of trade" against, 1868-			Attempt by, to smelt Sudbury		
1886.....	397	R C	ores.....	144	C xiv
Cement exports to Canada, 1901.	33	xi	Furnace of, for pyrites ores.....	194	A xvi
1902.	34	xii	Nickel-refining process of.....	36	x
Cobalt imports from New Cale-			Services of, obtained for Nickel-		
donia.....	73	B xiv	Copper Co.....	222	ix
Competitor of England, in Can-			Fraser, A. W.	120	vii
ada, notes.....	196, 197	v	52.....	viii	
Glass-making in, mixtures used			C. W.	59, 60	viii
in.....	118, 119	xi	Duncan	164, 165	v
Iron in, production, 1888.....	224	R C	Isaac (1826)	20	ii
pyrites.....	192	A xvi	John	26	v
royalties on.....	19	i			
Mica market in, for Canada.....	23	A xvi			

	Page.	Vol.		Page.	Vol.
Fraser bay, L. HURON.			Freedra Larder Lake Gold Mg. Co.		
Diabase dikes on.....	76	i	Capital and date of charter.....	28 A	xvi
Quartzite south of.....	72	i	Freek, W.		
lake, VERMILION RIVER, NIP.			Brick-yard of, Barrie, notes.....	99 B	xv
Gold on, alluvial.....	257	vii	Freeman, T. T.		
Navigation near, difficult.....	156	x	Mica mining by, Ferguson tp....	279	v
<i>Fraxinus sambucifolia.</i> See Ash, black			Freeman feldspar mine, PORTLAND		
Frazer, Dr. Persifor			AND LOUGHBOROUGH TPS.,		
Notes by, on corundum in Ilmen			FRONTENAC CO.		
mts.....	213	vii	Notes on, 1902.....	138	xii
and Logan.			mica mine, LOUGHBORO' TP.,		
Brick-yard of, at Blyth.....	2, 70 B	xv	FRONTENAC CO.		
bay, GEORGIAN BAY, L. HURON.			Minor ref. to.....	134	x
Copper ore near.....	9, 91	i	Notes on, 1904.....	85 A	xiv
Frederick House, FREDERICK HOUSE			1906, and photos....	89, 90 A	xvi
LAKE, NIP.			Operating, 1905.....	103 A	xv
Route from, to Abitibi river, des-			tp., P. S. D.		
cription.....	106-108 A	xiii	Copper prospecting in.....	121	x
(Hollow sand) lake, ABITIBI			Freiberg, SAXONY.		
RIVER.			Arsenic mining in.....	101	xi
Glacial drift on.....	187 A	xiv	works in, description. 108, 110		xi
striae.....	115 A	xiii	School of Mines, at.....	500	R C
Indian hut on, photo.....	239 A	xiii	metallurgical course,		
Leaf-gall at.....	129 A	xiii	notes.....	417	R C
Notes on, by Kay.....	108 A	xii	notes on, 1890.....	212	i
Parks.....	177	viii	Fremlin, William C.	199 A	xv
Rocks on and near.....	199 A	xiv	French, A.	119	ii
porphyrite.....	120 A	xii	John	46, 50	x
Sandy tracts N. of.....	192	viii	French narrows, L. OF THE WOODS,		
Storms on.....	123 A	xiii	R. R. D.	181	v
Trees on and near.....	123, 125 A	xiii	93		vi
Vegetables grown at.....	240 A	xiv	portage, L. OF THE WOODS,		
river, ABITIBI RIVER.			R. R. D.		
Ballast near, for railways.....	207 A	xiv	Route to, from Mud lake,		
Brick-clay along.....	207 A	xiv	description.....	115, 116	vii
Cascade on, photo.....	126, 225 A	xiv	river, GEORGIAN BAY, L. HURON.		
Glacial drift on.....	187 A	xiv	Area of Ontario south of.....	182 A	xvi
striae.....	115 A	xiii	Building-stone (granit) near..	84, 93	i
Moose on.....	127 A	xiii	Copper south of.....	169	ix
Notes on, and on basin of, by :—			Lumbering on.....	119	iv
Kay.....	108 A	xiii	Minor ref. to.....	201	v
McMillan.....	186, 195-199 A	xiv	Notes on, by Bell.....	66, 67	i
Parks.....	177-180	viii	river, MOOSE RIVER.		
Photos of.....	184, 185	viii	Landslides on.....	147 A	xiii
Report, by Kerr, on country E.			Muskegs near mouth of.....	190	viii
of.....	124-127 A	xv	Notes on, by J. M. Bell.....	137 A	xiii
Rocks on.....	198, 210 A	xiv	Parks.....	192	viii
peridotite.....	211 A	xiv	Rocks on.....	138, 142 A	xiii
Soil on and near.....	235, 244 A	xiv	Frenchman head, LOST LAKE, R.R.D.		
agricultural.....	207 A	xiv	Notes on, by Coleman.....	60	v
analysis.....	246, 247 A	xiv	Striae on.....	88	v
Trees on and near.....	125 A	xiii	Vegetables grown at.....	182	vii
196, 197, 224, 225, 235 A		xiv	lakes, HANMER AND WISNER		
pine.....	207 A	xiv	TPS, NIP.		
Waterpower on.....	193	viii	Minor ref. to.....	71 C	xiv
208, 209 A		xiv	Moraine near.....	102 C	xiv
Fredericksburg, FREDERICKSBURG			Rocks on, sedimentary.....	202 A	xiii
TP., LENNOX CO.			72 C		xiv
Altitude of.....	222	x	Terraces south of.....	106 C	xiv
Free trade.			Frenchmen rapid, MICHIPICOTEN		
See also Dingley tariff bill.			RIVER, ALG.....	190	vii
McKinley tariff bill.			Freuse, T. C.		
Tariffs.			Mica mining by, Ferguson tp....	279	v
Advantages of, in mining....	227-239	R C	Frick and Lindsay	119	ii
Fredonia, CHAUTAUQUA CO., N.Y.			Frid, George		
Corniferous formation at, thick-			Brick-making by, Hamilton.....	29	xii
ness.....	130, 156	i	106 B		xv
Freeburn mica mine, LOUGHBORO'			Friday, George (Indian)	158, 162	xii
TP., FRONTENAC CO.....	135	x			

	Page.	Vol.		Page.	Vol.
Friese, Hans			Frosse, Ulrick		
Cobalt business of, Saxony.....	83-87	R xiv	Copper smelting by.....	1586, 374, 376	R C
Frigido.			Frost, W. H.		
Pyrrhotite from, analysis.....	163	ii	Iron works of, Smiths Falls.....	329	R C
Frikovitch, Toni	39, 41	A xiii	Frue, William Bell		
Froath, Charles	31	vii	Huronian gold mine partly owned		
Froding magnetic separator.			by.....	123	v
Notes on.....	341	xii	Inventor of Frue vanners, which		
Frontenac co.			see.....	151	vi
Apatite in.....	436	R C	Photo. of.....	128, 129	vi
character.....	439-442	R C	President, Jackfish Lake Mg. Co. 76		v
See also Bell's apatite mine.			Silver Islet mine worked by.....	195	R C
Corundum in.....	205, 225, 227	viii	141-148		vi
Feldspar mining in.....	21, 86	A xvi	Tribute to.....	150	vi
Iron ores of.....	45, 47	ii	vanner.		
chromium in.....	233	vii	Concentration by, of corundum,		
origin.....	57	ii	notes by De Kalb.....	241, 242	vii
views of S. D. Mills.....	102	ii	Description of.....	151, 152	vi
Rocks of, limestone, notes by			Invention of.....	151	vi
Miller.....	43	xiii	Fruit.		
marble, distribution.....	80	R C	Peat for packing.....	122	iv
Potsdam formation.....	40	R C	industry.		
Vennors' classification.....	43	ii	Sulphuric acid for.....	197	A xvi
Sulphur in galena ores of.....	22	A xvi	trees.		
Topography of, character.....	437	R C	Insecticide for, formulae.....	117	xi
lead mine, LOUGHBORO TP.,			Fruit-land, SALTFLEET TP., WENT-		
FRONTENAC CO.			WORTH CO.		
Concentrating mill at, photo....	92	A xv	Brick yard in, notes.....	105	B xv
Notes on.....	240	i	Brick and Supply Co.		
78, 79		A xvi	Capital and date of charter.....	24	A xiv
by Machar.....	145, 146	R C	Brick Co.		
Opened up, 1879.....	11	A xiii	Notes on yard of.....	104	B xv
Ore from, analysis.....	94	A xiii	Fruitport, NEAR GRAND HAVEN,		
Ownership of, change in.....	234	vii	MICH.		
Work near, 1905.....	91	A xv	Iron furnaces at, record of.....	339	R C
Frood, Thomas			<i>Fucus digitatus.</i>		
See also Frood nickel m.			Ottawa, near.....	225	x
Evidence by, before R. C. re:—			32		B xv
gold, Neelon tp.....	114	R C	Fuels.		
minerals, Lacleche mts.....	59	R C	See also Coal, Oil, Peat, Trees, etc.		
mining laws.....	307	R C	Calorific power of, table of various.	186	i
tariffs.....	231	R C	481		R C
Wallace iron mine.....	142	R C	Coal, peat and wood compared.....	200, 201	ii
Iron ore shewn by, at World's			Composition of.....	184	i
Fair.....	81	ii	Definition and nature of.....	185	i
Owner, Wallace iron mine.....	63	ii	For brick-burning, notes by		
(OR NO. 3) nickel mine, Mc-			Baker.....	53, 54	B xv
KIM TP., SUDBURY DIST.			For smelting. See Smelting.		
Accidents in.....	44, 45	xii	Ontario, supply of.....	203, 204	ii
Bought by Ritchie.....	169	c xiv	Fuerst Bros.	122	xi
Flux from, for Creighton mine..	138	c xiv	Fuller, Frank	132	x
Geology of.....	263-268	xii	292		xi
Map of.....	At end of	xii	Dr. George A.....	505	R C
Minor ref.....	433	R C	Fullerton, George H.	62	ix
57, 285		xii	Fundamental gneiss.		
Notes on, 1901.....	278	xi	Definition of.....	194	v
1902.....	119, 120	xii	Fur-bearing animals.		
Ore deposits of, character.....	278	xii	See also the different species.		
Production of.....	156	c xiv	Abitibi dist.....	193	viii
Railway to.....	136	c xiv	189		xii
Rocks in and near:—			127		A xiii
greywacké.....	89	c xiv	242		A xiv
nickel-bearing.....	13	c xiv	Hudson and James bays.....	133	iv
off-set deposits.....	114	c xiv	Mattagami valley.....	131	A xv
notes by Coleman.....	57, 58	c xiv	Moose River basin.....	178	A xiii
quartzite.....	92	c xiv	Niven's base line, Alg., and S. of.	142	ix
petrographical notes.			Timagami Lake dist.....	58	R C
290, 291, 297		xii			
Sulphides in, percentage of.....	151	c xiv			
10 MI.					

	Page.	Vol.		Page.	Vol.
Furlonge lake, MANITOU LAKE DIST.,			Galbraith, John		
R. R. D.			Evidence by, before R. C.	425	R C
Minor ref. to.....	49, 62	iv	Minor refs. to.....	215	i
Rocks on.....	78, 80	iv		58	x
Shores of, wooded.....	43	iv	William		
Furnace Falls. See Lyndhurst.			R. f. to surveys by, Timiskaming		
Iron Co.			dist.....	37 A	xvi
Capital and date of charter.....	9	vii	William (MINER)	31	ix
Furnaces.			tp., ALG.		
See also Blast furnaces, etc.			Gold in.....	92	i
Lime for lining of.....	6 B	xiii	See also Ophir gold mine		
Reverberatory, compared with			Gale, James William	249	vi
blast.....	375	R C		43, 50	viii
Fusibility.				16	xii
Scale of.....	449	R C	Galena (SULPHIDE OF LEAD).		
<i>Fusus tornatus.</i>			A-sociation of, with gold.....	38	iv
James bay.....	143 A	xiii	sulphur....	22 A	xvi
			Definition of.....	534	R C
G 16-22 gold locs., NEAR MUD			Determination of.....	204, 208	vi
LAKE, R. R. D.	68 A	xiii	Hardness of.....	202	vi
19 gold loc. See Imperial mine.			Hints on, to prospectors.....	460, 461	R C
61 gold loc, N. OF BAD VER-			Occurrences of. See Lead.		
MILION LAKE, R. R. D.	82	vi	Plant for treating, Kingston.....	234	vii
69 gold loc. See Olive mine.			Price of, 1895.....	208	vi
149 gold loc. See Sairey Gamp			Specific gravity of.....	202	vi
mine.			Gold Mining Co.		
151 gold loc. See Orion mine.			Capital and date of charter.....	10	ix
Gabbro.			<i>Galeoscoptes carolinensis.</i> See Cat-bird.		
Abitibi dist., petrography.....	140 A	xiii	Galesburgh, ILLINOIS, U. S.		
	210 A	xiv	Bricks from, tests on.....	130	iii
Cobalt dist., description.....	41 B	xiv	Galicia.		
notes.....	48-51 B	xiv	Oil in.....	115	i
Cross l., Coleman tp.,				93 A	xiv
analysis.....	51 B	xiv	<i>Galium asprellum.</i>		
Definition of.....	534	R C	Abitibi Lake dist.....	241	xiv
Foley tp., petrography.....	180	ix	“ boreale.		
Hinchinbrooke tp., notes by			Mattagami valley.....	150 A	xv
Miller.....	228, 229	viii	“ trifidum.		
Loring (near), petrography.....	182	ix	Abitibi Lake dist.....	241 A	xiv
Massagamashine lake, with			Mattagami valley.....	150 A	xv
hyperethene.....	296	xii	“ var. latifolium.		
Notes on, by Miller.....	234	vi	Mattagami valley.....	151 A	xv
Port Coldwell (near), notes by			“ var. pusillum.		
Coleman.....	212	xi	Mattagami valley.....	151 A	xv
petrography.....	148 B	vii	“ triflorum.		
Rainy Lake dist., notes by Cole-			Abitibi Lake dist.....	241 A	xiv
man.....	49	iv	Mattagami valley.....	150 A	xv
petrography.....	91-93	iv	Gall louse.		
Sudbury dist.....	240, 257, 268, 272, 295	xii	Abitibi dist.....	128 A	xiii
notes and photos.....	75-78, 122 C	xiv	Gallagher, Joshua		
petrography.....	78	i	Evidence by, before R. C.	138	R C
Timagami dist.....	164	x	Iron Mg. Co.		
Gaddes, T.			Capital and date of charter.....	28 A	xvi
Gold mining by, near Jackfish..	266	vi	Gallingertown, OSNABRUCK TP., STOR-		
<i>Gadus callarias.</i> See Cod.			MONT CO.		
Gaebel, William	107 A	xv	Marine deposits at.....	220	x
Gagne, Israel			Galluccio, Bartolomeo	31, 32 A	xv
Ontario, Ltd., g. m. formed by..	53	vii	Galt, A. T.	21	ii
Owner, Wendigo g. m.	71	x	John	49, 57	vi
Island Gold Mine Co.			Galt, N. DUMFRIES TP., WATERLOO CO.		
Capital and date of charter.....	9	vii	Guelph formation near.....	115 B	xiii
Gahnite.			Galway tp., PETERBORO CO.		
Raglan tp.....	198	ix	Allanite in.....	193	ix
Gainsborough tp., LINCOLN CO.			Barite in.....	195	ix
Iron ore from, exhibited at			Calcite in.....	195	ix
World's Fair.....	81	ii	Galena in.....	198	ix
Galaso, Araso	45, 48	xii	Gold in.....	199	ix
“Galatea” s.s.	38 A	xiv	Grenville series in.....	56 B	xiii

	Page.	Vol.		Page.	Vol.
Galway tp., PETERBORO CO.—Con.			Ganley harbour, L. SUPERIOR.		
Iron ore in, analysis.....	131	R C	Description of shores near.....	135	viii
magnetite, analysis.....	202	ix	High hills north of.....	281	A xiv
Lollingite in, analysis.....	201	ix	Uninhabited country near.....	147	viii
Marble in.....	83	R C	Ganley's iron claim, NOISY RIVER,		
Pyrrhotite in.....	207	ix	L. SUPERIOR.		
	200	A xvi	Iron formation on.....	204	A xv
lead mine, PETERBORO CO.			Ganong, W. K.	134	xii
Calcite in.....	196	ix		52, 53	A xiii
Melanterite in.....	203	ix	Gans, Jochim		
Mining Co.			Inventor of a copper-smelting		
Capital and date of charter.....	9	vii	process.....	374	R C
Game.			Gap nickel mine. See Lancaster		
Abitibi dist.....	193	viii	Gap mine.		
	127	A xiii	Garafraxa, Antonio	46, 50	x
	253	A xiv	Garafraxa E. tp., DUFFERIN CO.		
Blanche River reg.....	224	xi	Clay and marl in, analyses.....	16	x
	188	xii	Garcia Gold Mining Co.		
Hinterland, The.....	133	iv	Capital and date of charter.....	9	vii
L. of the Woods.....	120	vii	Garden island, OFF KINGSTON.		
Mattagami valley.....	131	A xv	Black River formation on.....	44	B xiii
Michipicoten div.....	297	A xiv	River. ALG.		
	200	A xv	Beaches at, height of.....	152, 155	viii
Mississagi River dist.....	172	xii	See also below. Gravel.		
Moose River basin.....	178	A xiii	Cascade silver mill at, photo..	136, 137	viii
Nipigon Lake dist.....	139	A xvi	Galena near.....	175	i
Niven's base line and S. of.....	142	ix	Gravel (economic) near.....	197	viii
Rainy Lake dist.....	97	iv	photo of steam-shovel at...136, 137		viii
Timagami dist.....	161	x	Notes on and vicinity, by Cole-		
Gamgee, John			man.....	122, 123	viii
Letter from, to Ritchie.....	173, 174	C xiv	Rocks at and near.....	161, 163	viii
Nickel steel made by.....	165	C xiv		274, 275	A xiv
notes by Ritchie.....	167-170	C xiv	greywacké conglomerate.....	159	viii
Gamm, H. E.	39, 79	A xiv	limestone.....	124	viii
Gamsby, C. H.			quarrying.....	31	B xiii
Crops reported by, Groundhog			limestone.....	160	viii
lake.....	114	iv	marble.....	229	R C
Ref. to surveys by, Mattagami			Victoria mine, at, photo...136, 137		viii
dist.....	115	iv	river, LAKE GEORGE, ALG.		
Gananoque, LEEDS TP., LEEDS CO.			See also Garden River.		
Beach at.....	221	x	Antimony on.....	30	R C
	241	A xiii	Beaches on.....	123	viii
Brick-yard at, notes on.....	76	B xv	Galena on.....	198	ix
Granite quarries near.....	296, 297	xi	argentiferous.....	67, 203	R C
Mica mining near.....	28	xi	mining.....	29	R C
works at.....	292	xi		145, 147	R C
Serpentine mining near.....	297	xi	Marble on, notes by Merritt...	76	R C
	13	A xiii	Selwyn....	68	R C
falls, GANANOQUE RIVER.			Snow.....	83	R C
Blast furnace at, 1800.....	13	ii	Stibnite near.....	210	ix
gold mine, NEAR MICHIPICOTEN, ALG.			Gardiner, "Doc."	82	vi
Notes on, 1898.....	101	viii	Frank		
1899.....	114	ix	Gold-mining by, L. of the Woods.	42	ix
1900.....	139	x	Michipicoten		
Gold Mining Co.			div.....	103	vii
Capital and date of charter.....	10	ix	Minor ref. to.....	238	v
Licence to.....	116	ix	Gargantua cape, L. SUPERIOR.		
Work by, 1899.....	114	ix	Amygdaloidal trap near.....	204	vii
river, LEEDS CO.				168	viii
Blast furnace on.....	319	R C	containing copper...205		vii
	13	ii	Beaches at and near.....	153	viii
Waterpower on, for mica mining.	292	xi	height.....	155	viii
Ganley, James, Joseph AND T.			Granite locations at.....	67	iii
Mining by, Michipicoten div....	103	vii	Photo. of.....	80, 81	xii
	103	viii	Thompsonite at.....	211	ix
	116	ix	Rocks at.....	7	Bull. iii
	141	x	Nipigon series.....	9, 11	Bull. iii
	66	xii	harbour, L. SUPERIOR.		
	48	xiii	Description of, by Coleman.....	132	viii

	Page.	Vol.
Gargantua river, L. SUPERIOR.		
Description of shores north and south of.....	132	viii
Garland, Capt. M. N.		
Analysis of iron ore from mine of. <i>Nicholas</i>	75	ii
Gypsum mining by, Oneida tp..	113	i
	253	ii
	199	iii
	282	v
	23	x
(See also Garland gypsum mine.)		
Garland gypsum mine, ONEIDA TP., HALDIMAND CO.		
Idle, 1897.....	100	vii
Notes on, by L. J. Johnston....	122	R C
1891.....	243	i
1892.....	253	ii
1893.....	199	iii
1894.....	252	iv
1895.....	282	v
Garlick, E. C.		
Estimate by, of cost of charcoal-making, Ohio.....	337	R C
Paper by, on the Henderson steel converter	488-492	R C
ref. to.....	xiii	R C
R. M.....	103	viii
Garnet.		
See also Andradite and Melanite.		
Apatite dists.....	422	R C
Craigmont.....	43	A xv
Determination of	205	vi
Elmsdale, near	172	ix
Frederick House river.....	178	viii
French River dist.....	67	i
Hardness of	202	vi
Mattagami river	180	A xvi
Notes on, by Goodwin.....	228	vi
Occurrences of.....	198	ix
Radcliffe tp.....	224	viii
Raglan tp.....	211	vii
	222	viii
Rainy lake	82	iv
Robert bay.....	81	B xiii
Specific gravity of.....	202	vi
Sturgeon l., R. R. d. and Th. B. d.	173	vii
Value of (in Ont.), doubtful....	188	ii
Garnier, Jules		
Data by <i>re</i> tests on nickel-steel..	145	ii
Method of, for separating Sudbury ores....	156	ii
treating garnierite.	151	ii
New Caledonia nickel deposits discovered by	213	ix
	236	xii
	3, 147,	149 C xiv
Smelting efforts of, New Caledonia nickel ores.....	215	ix
Sudbury ores reported on, by...	3	C xiv
Garnierite or Noumeite.		
Description of	149	ii
Hardness of	201	vi
New Caledonia	193	ii
analyses	148	C xiv
Notes on, by Goodwin.....	214	vi
Origin of.....	150	C xiv
Specific gravity of.....	201	vi
Treatment of, notes by Levat.	151-153	ii

	Page.	Vol.
Garr, William	58	xii
Garrett, A.	178	R C
Garrison, A.	119	ii
Garrow tp., NIP.		
Chalcopyrite in.....	196	ix
"Garry Owen," s.s.	202	i
Garry river, DELISLE RIVER, GLEN-GARRY CO.		
Log of well on.....	46	B xiii
Garson lake, GARSON TP., NIP.		
Conglomerate near.....	94	C xiv
nickel mine, GARSON TP., NIP.		
Notes on, 1906.....	67	A xvi
tp., SUDBURY DIST., NIP.		
Agricultural land in.....	106	C xiv
Beaches in.....	103, 106	C xiv
Copper mining in.....	19	viii
Gravel and sand plains in.....	273	xii
	203	A xiii
	74	C xiv
Nickel mining in.....	39	A xvi
See also Cryderman mine.		
Garson mine.		
Kirwood mine.		
Victoria mines.		
prospecting, by Mond Co.	66	A xv
Rocks in, greenstone.....	75	i
nickel-bearing	60-62	C xiv
norite	242	xii
quartzite	92, 128	C xiv
Garter snake.		
Abitibi dist.....	127	A xiii
McCann tp., Nip.....	253	A xiv
Gas.		
For Natural gas. See Natural gas.		
Lime used in manufacture of....	3, 5	B xiii
Peat for, analysis	230	xii
plant, cost.....	231	xii
diagrams.....	109	xi
notes	209, 210	i
paper.....	228-233	xii
Saw-dust produces, for smelting.		
	390, 393, 483	R C
Gas and Oil Co. OF SPRINGVALE.		
Capital and date of charter.....	25	A xv
Gash pt., RAINY LAKE, R. R. D.		
Rocks at, quartz-diorite	78	iv
Gasoline.		
As a by-product of petroleum.		
	158, 163	R C
Gaspe co.		
Devonian rocks of.....	46	R C
Oil in.....	196	ii
pt., GASPÉ CO., QUE.		
Appalachian system from, to Tennessee.....	95	A xiv
Gasse, Louis		
Gold mining by, Manitou lake..	85, 87	vi
Paul		
Gold mining by, Manitou lake..	85 vi; 123	vii
Manager, Sairey Gamp mine....	100	x
<i>Gasteropoda.</i>		
Abitibi river	188, 189	viii
Kwataboahagan river, notes by Parks	186	A xiii
<i>Gasterosteus aculeatus.</i>		
Greens creek.....	224	x
Gatensbury, E.	97	x
Gates, W. S.	67	A xvi

	Page.	Vol.
Gates Ajar Narrows, PIPESTONE LAKE, R. R. D.	61	iv
Gate's crusher. For cement making.....	132 A	xiv
Gatling gold mine, MARMORA TP., HASTINGS CO. Assays of ore from.....	28, 110	R C
Chlorination works at.....	107	R C
Included in Deloro g. m.	60	vi
See also Deloro g. m.		
Minor ref. to	68	R C
Mispickel in	38	iv
auriferous, photo.....	112, 113	xi
Notes on, by D. E. K. Stewart..	110	R C
Operating, 1892.....	238	ii
Section of	107	R C
Five Acres. See Atlas Arsenic Co.		
Gaudaur— ?	40	vii
Gaudette, C.	103	viii
	116	ix
Gaudette tp., ALG. Copper mining in. See Superior copper mine.		
Gautheria procumbens. Abitibi Lake dist.....	241 A	xiv
Gautier, F. Notes by, on iron smelting.....	475	R C
Gavin, Joseph E.	93	xii
Gawley, Andrew See Gawley property. gold mine, MARMORA TP., HASTINGS CO. Gold and arsenic values in.....	104	xi
Minor ref. to	197	xi
Notes on, by Miller.....	198	xi
property, MARMORA TP., HASTINGS CO. Gold and arsenic values of.....	104	xi
Gaylord, E. W.	234	ii
	29, 30	iii
Gay-Lussac. Experiments by, on lime-burning.	9 B	xiii
Tower of, for pyrites ores, description	194 A	xvi
Gaylussacia resinosa. Mattagami valley	150 A	xv
Ottawa (near)	225	x
Geary, Sir Henry Le Guay	143	ii
Gebo (INDIAN)	198	vii
Geese. Caribou island, L. Superior.....	111	v
Hinterland, The.....	133	iv
Geikie, Sir Alex.	209	vii
Archibald Views of, re metalliferous veins .	172	i
James Description by, of till.....	105	i
"Geisha," s.s.	248 A	xiv
Gellivare, SWEDISH LAPLAND. Iron ore of.....	472, 473	R C
Wenstrom separator used at....	328	xii
Gem stones. See Precious stones.		
Gemmell, L. J.	103	vii
	116	ix
	141	x
	74	xi

Gemmell, L. L.

Blair and Bliss mica mines partly owned by.....	290	xi
Corundum found by, S. Sherbrooke tp.....	225	viii
Gibson's mica mine worked by..	129	xii
Manager, Donnelly mica mine..	130	xii
Mica producing, 1903.....	12 A	xiii

Gemmell, D. W.	141	x
	66	xii

General Chemical Co.

Working pyrites in Madoc tp. .	295	xi
--------------------------------	-----	----

General Electric Co.

See also Loughborough Mg. Co.		
Boring plant purchased by....	42 A	xiii
Byrnes mica mine.....	129	xii
Effect on, of depression in electrical business	83 A	xiv
Hanlan mica mine owned by....	129	xii
	12 A	xiii
Lacey mica mine owned by.....	134	x
	287	xi
	27	xii
	12 A	xiii
Mica mining by, 1903.....	91, 92 A	xiii
1904.....	20, 84, 85 A	xiv
1905....	21, 102, 103 A	xv
1906	22, 23 A	xvi
Gould lake....	287	xi
properties of, transferred to Loughboro Mg. Co.....	86 A	xvi
works of	105 A	xv
Ottawa	86 A	xiv
	105 A	xv
	91 A	xvi
Sydenham	291	xi
transferred to Ottawa	132	xii
Mining class at.....	39 A	xv

Genesee slates.

Composition of	99 A	xiv
Kettle pt., L. Superior.....	156	xii
Ohio	141	i

Genesis, Book of

Quotation from	107	iii
----------------------	-----	-----

Geneva lake, HESS TP., ALG.

Beach on, altitude.....	211	x
	103 C	xiv
Glacial striae on, direction.....	211	x
Gravel plain near.....	106 C	xiv
Iron ore on	187	x
Rocks on and near	82	i
	154	x
	222 A	xiii
Clay slates.....	73	i
limestone, crystalline.....	107	xii
for burning... ..	94	i
notes.....	29 B	xiii

Geneva Lake station, HESS TP., ALG.

Limestone from, analysis.....	307	xii
	29 B	xiii

Genth, Prof. F. A.

Ref. to paper by, on minerals of N. Carolina.....	120	ix
---	-----	----

	Page.	Vol.		Page.	Vol.
Genthite, (Nickel-gymnite)			Georgi, J.	103	viii
Composition of.....	445	R C		116	ix
Michipicoten island.....	193, 194, 205	ii		141	x
	150	C xiv		74	xi
Oregon and N. Carolina.....	148	C xiv		66	xii
Geological formations.			Georgia, U. S.		
Animikie iron range.....	158	A xv	Corundum in.....	62	vi
Clays (Pleistocene and Recent)..	6	B xv		213	vii
Michipicoten div.....	174	A xv	notes.....	19	ix
Nipigon Lake dist.....	139	A xvi	Platinum in.....	142	vii
Ontario, divisions of.....	22	B xiii			
	96	A xiv	Georgian bay, L. HURON.		
Sudbury dist.....	14	C xiv	Beaches on, notes by Coleman..	151	viii
Thunder bay, north of.....	254	A xiv		176, 177	ix
Geological nomenclature. See			Building-stone on.....	93	i
Nomenclature, geological			Copper ores on, notes by Cole-		
Geological survey.			man.....	164-168	ix
Value of a, to palæontology.....	422	R C	Forest fires in, 1871.....	206	v
Geological Survey of Canada.			Geology of, notes by Bell....	67, 68	i
Economic importance of Huron-			Line on, for smelting.....	2, 13	B xiii
ian recognized by.....	249	v	Rocks on, anorthosite.....	181	ix
Effort by, to push Canadian mica			Medina.....	43	R C
in Gt. Britain.....	28	xi	mineral-bearing.....	65	R C
Extract from reports by, on:—			Palæozoic.....	22	B xiii
Madoc blast furnace.....	22, 23	ii	Silurian.....	24	B xiii
Marmora iron foundry... 322-325		R C	Cambro-Silurian..	41-44	R C
Iron ores of Canada.....	32	ii	Sand from, for brick-making....	100	B xv
Saxicava sand.....	32	B xv	Smelter on, proposed.....	261	viii
Formation of, ref. to.....	21	ix	and Niagara Copper Mg. Co.		
Maps of, excellent.....	90	vi	Work by, 1900.....	121	x
Museum of, character.....	412	R C	Mining Co.		
Leda Clay in, notes. 31		B xv	Mica mining by, Ferguson tp... 279		v
Objects and early operations of. 408		R C	Portland Cement Co.		
Reports of, notes on.....	xiv	R C	Notes on, by De Kalb.....	108, 109	ix
Statistical work of, notes on. 414, 415		R C	Subsequently the Imperial		
			Cement Co., <i>which see.</i>		
Great Britain.			"Georgina" s.s.	188	v
Fruitless search for coal prevent-			Georgina tp., YORK CO.		
ed by.....	409	R C	Pyrites in; arsenic plant in. See		
Officers of.....	493	R C	Virginia.		
The United States.			Limestone in.....	126	B xiii
Notes on creation of.....	408	R C	<i>Geranium carolinianum.</i>		
Geologist.			Abitibi Lake dist.....	242	A xiv
Qualifications of.....	410	R C	Mattagami valley.....	150	A xv
Geology.			Gerhauser, William		
Method of teaching, by Summer			Estimates by, of iron producing		
Mining Classes.....	281	viii	in Mich.....	338	R C
"Geology of Canada, 1863."			Notes by, on iron making in		
Extracts from, <i>re</i> :—			Detroit.....	399	R C
Corundum in N. Burgess tp....	62	vi	German Canadian Smelting and		
	214	vii	Refining Co.		
Erie clay.....	10	B xv	Capital and date of charter.....	29	A xvi
Iron and iron mining.....	30-38	ii	silver.		
Origin of marl.....	119	A xiv	Composition of.....	164	C xiv
Peat as fuel for locomotives... 159		i	Nickel in.....	224	ix
Saugeen clay.....	18	B xv	tp., ALG.		
George, Johann	88	B xiv	Physical features of.....	108, 109	A xiii
George, R. D.			Soil in, character.....	132	A xiii
Work by, 1898.....	121, 135	viii	Trees in.....	125	A xiii
George (Indian chief)	118, 125, 164	v	Germantown, U. S.		
George Heenan gold mine. See			Brick pavement of.....	109	iii
Heenan, George			Germany.		
island, GEORGIAN BAY, L.			See also Prussia.		
HURON.....	84, 93	i	Ammonium sulphate imported		
lake, DOG RIVER, L. SUPERIOR.			from.....	169	R C
Rocks on.....	141	viii	Carbide of calcium produced in. 36		A xi
Huronian.....	348	A xiv	used in, notes. 22, 23		x
			Cement industry in, over-produc-		
			tion.....	36	xii

	Page.	Vol.		Page.	Vol.
Germany.—Con.			Gertrude nickel mine.—Con.		
Cement imports from, 1900.....	15	x	Notes on, 1899.....	99	ix
1901.....	33	xi	1900.....	125	x
1902.....	34	xii	1901.....	64, 65, 281	xi
Coal in.....	175	A xiii	1902.....	123, 246-248	xii
Cobalt ores in.....	103	A xiii	Ore deposits of, character.....	278	xii
	61	B xiv	Photos of.....	208, 209	xi
imports, from New Caledonia.....	73	B xiv	Production of.....	144	C xiv
Copper smelting in, notes on....	375	R C	to 1902.....	287	xii
Glass-making in, mixtures used.	118, 119	xi	Railway to.....	136	C xiv
Graphite industry in.....	34, 36	vi	Rocks in and near:—		
Iron and steel in:—			faulting.....	37	C xiv
cost of making.....	396	R C	granite.....	83, 116	C xiv
production, 1888.....	224	R C	granitoid-gneiss..	293	xii
1890 (Thomas steel).....	91	ii	hypersthene.....	18	C xiv
1892.....	122	ii	norite...31, 32, 36,	81	C xiv
Lithographic stone from, analysis.....	181, 182	ii	notes by Coleman.....	32, 33	C xiv
Mining in, compared to U. S.			quartz-syenites... 297	xii	
mining.....	509	R C	petrographical		
Mining lands in, ownership..	18, 22	i	notes.....	112, 116	C xiv
sale of.....	260	R C	Smelter at, blown in.....	19	xii
laws of.....	296, 297, 318	R C	plan.....	247	xii
schools in.....	495-497	R C	Work at, 1901.....	20, 21	xi
Nickel coinage in.....	161	ii	by L. Superior Power		
	182	iv	Co.	143	C xiv
composition.....	164	C xiv	resumed, 1905.....	12	A xv
ores of.....	146	C xiv	suspended, 1903.....	87	A xiii
plating in, process.....	158	ii		146	R C
Peat industry in:—			Gertwood, Dr.		
drying process.....	196	i	Gesic zinc mine, NEAR ROSSPORT,		
milling-machines.....	199	xii	TH. B. D.		
	29	A xiii	Notes on, 1899.....	87	ix
moss-litter.....	187, 191	vi	Gessage, William		
preparation.....	141-143	iii	Process of, for refining nickel ores.	220	ix
production.....	144	iii	Gessner, —?	118	xi
notes on.....	212, 213	ii	Getzville, ERIE CO., N. Y.		
wages in.....	195	ii	Boring in, for gas.....	162	i
Sand-lime brick industry in....	vi	B xiii	<i>Geum rivale.</i>		
Gersdorffite (Nickel glance.)			Abitibi dist.....	241	A xiv
Description of.....	213	vi	Mattagami valley.....	150	A xv
Hardness and specific gravity of.	202	vi	" <i>strictum.</i>		
Sudbury dist.....	198	ix	Abitibi dist.....	241	A xiv
	58	xii	Mattagami valley.....	151	A xv
Denison tp., analysis.....	233	i	" <i>triflorum.</i>		
Gersdorffite mine.....	192	ii	Abitibi dist.....	241	A xiv
Macdonnell mine.....	180	ii	Giant Gold Co.		
Notes and analysis.....	160	C xiv	Capital and date of charter.....	8	xii
Worthington mine.....	282	xii	See also next ref.		
	31	C xiv	gold mine, MOSHER BAY, ANZ-		
Gersdorffite nickel mine, NEAR			HEKUMMING LAKE, R. R. D.		
WORTHINGTON, SUDBURY DIST.			Notes on, 1902.....	92	xii
Gersdorffite in.....	192	ii	1903.....	67	A xiii
	160	C xiv	1904.....	53	A xiv
Morenosite in.....	163	C xiv	Silver Nugget Mines, Ltd.		
Niccolite in.....	192	ii	Capital and date of charter.....	28	A xvi
Gertrude nickel mine, CREIGHTON			Giants Causeway, ULSTER, IRELAND.		
TP., SUDBURY DIST.			Basalt rocks of.....	529	R C
Blueite in.....	166	C xiv	Tomb (island), GEORGIAN BAY,		
analysis.....	282	xii	L. HURON.		
Boring plant purchased by.....	42	A xiii	Limestone on.....	109	B xiii
Copper in, percentage.....	152	C xiv	Gibb, Thomas		
scarcity of.....	62	x	Notes by, on Mond nickel process.	120	viii
	15	C xiv	Gibbard, William		
			Notes by, on copper mine at Point		
			aux Mines.....	208	v
			Gibbon, William S.		
			Evidence by, before R. C.:—		
			limestone, Manitoulin island..	84	R C
			ol, Manitoulin island.....	167	R C
			taxing mining lands.....	307	R C

	Page.	Vol.		Page.	Vol.
Gibbons, George C.	50	xii	Gibson, Thomas William—<i>Com.</i>		
William			Papers and reports by, on :		
Gold mining by, L. of the Woods.	118	R C	1896. Moss litter.	185-192	vi
	233	ii	1897. Water Powers of Ontario.		
Gibbs, F. N.				251-256	vii
Exhibit of, at Pan-American			Report by, as Deputy Minister of		
exhibition.	86	xi	Mines, 1906.	3-48 A	xvi
Director, Consolidated Mines Co.			Reports by, as Director:		
of L. Superior.	257	xi	1900.	1-60	x
Harold Lake gold mine owned			1901.	3-60	xi
and managed by.	4 Bull.	i	1902.	1-52	xii
	146-148	v	1903.	1-45 A	xiii
	79	vi	1904.	1-36 A	xiv
Manager, Porcupine silver mine.	258	xi	1905.	1-38 A	xv
Gibraltar Mining and Develop-			Work by, 1894.	4	v
ment Co.			W. K.		
Capital and date of charter.	8	vii	Oil well drilled by, Petrolea field.		
rock, MANITOULIN ISLAND, ALG.				25, 26	v
Clinton formation at.	78	B xiii	William		
Gibson, A.			Quarry of, at Crookston.	98, 99	vii
See also Gibson mica mine.				48	viii
Manager, Levett and Davis mica			in Clinton tp.	97	i
mine.	194	iii		74 B	xiii
Alexander L.			Shareholder, Willson Carbide Co.	22	x
Notes by, on peat in Greenlaw,			lake, VERMILION RIVER, NIP.		
Scotland.	187	i	Gold washing on.	257, 258	vii
Angus			micamine, N. ELMSLEY TP.,		
Cobalt and nickel reported by,			LANARK CO.		
Michipicoten div.	205 A	xv	Abandoned, 1902.	129	xi
Manxman gold mine managed by.			Notes on, 1901.	290, 291	xi
	64, 80	xii	Gieseckite. See Agalmatolite.		
	47 A	xiii	Giessen, E.	132	vii
owned by.	238	xi		92	viii
Mining by, Michipicoten div.	141	x	Gifford, J. R.	61, 62, 276	viii
	74	xi	Gifhorn, HANOVER, GERMANY.		
	66	xii	Peat at.	213	ii
	48 A	xiii	moss-litter.	187	vi
Dr.	54	xi	Gilbert, F. L.	141	x
James	101	x	G. K.		
Hon. John M.			Altitudes of Iroquois beach given		
Transmittal letters to and from. .	3-6	vi	by.	232 A	xiii
	v	vii	Ref. to report by, on Great Lakes.	226	x
T.	141	x	work by, on Henry mts,		
Thomas William			of Col.	156-158	vii
Appointed to Bureau of Mines. .	3	i	Views of, on Iroquois beach . . .	226 A	xiii
Directorship.	5	x	J.	106	x
Correspondence between, and			portage, NETTOGAMI RIVER,		
Miller re Cobalt, Ont.	10, 11 B	xiv	ALG.	137 A	xiii
Niccolite in Cobalt dist. re-			Gilchrist, F. W.	29, 37	ix
cognized by.	96 A	xiii	James	68	vi
Notes by, on new Mining re-			Gildersleeve, H. H.		
gulations.	214, 215	iv	Mica mining by, Storrington tp..	133	x
Papers and reports by, on:			Giles, W. A.	119	ii
1891. Artesian wells.	49-62	i	Gill, A. C.	171	xii
Peat, its use and value			Alexander		
for fuel.	180-211	i	Notes by, on early production of		
Technical Instruction.	212-217	i	gypsum in Ont.	121	R C
1892. Peat as a Fuel.	203-208	ii	See also next ref.		
1893. Mining Accidents. . .	167-177	iii	Allan and Brown.		
Vitrified brick for pave-			Gypsum quarrying by.	111, 114	i
ments.	103-132	iii	William		
1894. Hinterland of Ontario,			Evidence by, re royalties in Spain.	30	i
The.	101, 138	iv	P. O., N. CAYUGA TP., HALDI-		
ref. to.	5	iv	MAND CO.		
Mining Accidents. . .	199-215	iv	Sandstone quarry at.	56 B	xiii
1895. Mining Accidents. . .	235-240	v	Gillan spring, FITZROY TP., CARLE-		
Work with the Diamond			TON CO.		
Drill.	221-234	v	Water from, analysis.	205	ix

	Page.	Vol.
<i>Gillenia trifoliata</i> .		
Mattagami valley.....	150 A	xv
Gillespie, H.	16	x
P.		
Paper by, on Cement Industry of Ontario.....	118-183 A	xiv
Report by, on samples of cement from Lakefield.....	19 A	xv
Robert	21	ii
nickel mine. See Trillabelle nickel mine.		
Gillies, H.	103	vii
J. A.	103	vii
Bros., Ltd.	46 A	xvi
Depot, MONTREAL RIVER, NIP.		
Mining class at.....		
Silver Mg. Co.		
Capital and date of charter.....	29 A	xvi
tp., TH B. D		
Silver mining in.....	23	viii
See also Silver Creek mine.		
Witherite in.....	212	ix
Gilman, E. W.	52	ix
Gilmore, D. B.	103	viii
	116	ix
S. M.	103	vii
	103	viii
	116	ix
W.	103	viii
	116	ix
William		
Brickyard of, Whitby.....	88 B	xv
Gilpin Cobalt Silver Mg. Co.		
Capital and date of charter.....	29 A	xvi
Girard, George		
Gold prospecting by, L. of the Woods.....	101, 102	vi
Stephen		
Coal land bought by, Penn.....	226	ii
Girdwood, Dr. G. P.		
Analyses and assays by, of:		
iron ore, Pic river.....	37	R C
	313	xii
quartz, Partridge lake.....	26	R C
Girouard, E.	34, 35 A	xvi
Giroux, Michael	256	ii
N. J.		
Ref. to surveys by, in Carleton co.	37 B	xiii
lake, COLEMAN TP., NIP.		
Mining class at.....	45 A	xv
	53 A	xvi
Silver veins near.....	26 B	xiv
	85 A	xv
Girteau, Charles	86 A	xiv
	105 A	xv
Glacial striae.		
Abitibi region.....	115 A	xiii
Abitibi lake.....	200 A	xiv
river.....	181	viii
	185, 206 A	xiv
Algoma-Nipissing boundary line.	181	vi
	211	x
Black river.....	186	xii
Rlanche river.....	181-183	xii
Davis lake.....	111 A	xiii
Flying-loon lake, near.....	173	vii
Frederick House lake.....	108 A	xiii
Gull lake, White-clay river.....	184	xii
Hagersville (near).....	144	xii

Glacial striae.--Con.

	Page.	Vol.
Lakes Superior and Huron, N. of.	157	viii
Mica bay.....	173	ii
Mattagami valley.....	135 A	xv
Michipicoten div.....	185	xi
Dog lake.....	197	vii
river.....	288 A	xiv
Magpie lake.....	199	vii
Wawa (near).....	194	vii
Mississagi river.....	165, 167	xii
Night-hawk lake.....	107 A	xiii
river.....	175	viii
Parry Sound dist.....	178, 179	ix
Photo of example of.....	4 B	xv
Porcupine lake.....	106 A	xiii
Rainy River dist.....	88	v
Sebastopol tp.....	224	viii
Sudbury dist.....	101 C	xiv
Thunder Bay dist.....	89	v
	178, 179	ix
Mackay mt.....	133	vii
Nipigon Lake dist.....	135 A	xvi
Timagami dist.....	178, 179	ix
Glaciation.		
Abitibi dist.....	185 A	xiv
Algoma-Nipissing boundary line.		
	181-183	vi
Effect of, on iron deposits N. of		
L. Superior.....	25, 143	xi
Hudson river, N. Y.....	32 B	xv
Labrador, effect of, on gneisses..	15	R C
Lake of the Woods.....	7 Bull.	iii
Lakes Huron and Superior, N.		
Shore, notes by Coleman..	156, 157	viii
Mattagami valley.....	135 A	xv
Michipicoten div.....	7 Bull.	iii
	204, 205	vii
	288, 289 A	xiv
Mississagi River dist.....	39	iii
Nipigon Lake dist.....	135, 147, 148 A	xvi
Notes on, by Bell.....	48-52	R C
Ottawa and vicinity.....	30-32 B	xv
valley.....	226, 227	x
Prescott.....	32 B	xv
Sudbury dist., paper by Coleman.		
	101-106 C	xiv
Wabigoon Lake area.....	172	vii
Western Ontario, notes by Coleman.....	88-93	v
Gladstone and Sulphuret Gold Mg. Co.		
Capital and date of charter.....	9	vii
gold mine, MARMORA TP., HASTINGS CO.		
Evidence re before R. C.....	110, 111	R C
Position of.....	28	R C
gravel pit, NEAR PRESCOTT.		
Altitude of.....	242 A	xiii
Minor refs. to.....	220, 227	x
tp., ALG.		
Copper in.....	23	xi
Glamorgan tp., HALIBURTON CO.		
Iron ore in, analysis.....	62	ii
exhibited at World's Fair.....	82	ii
magnetite, analysis.		
	201, 202	ix
mining, notes by		
Pusey.....	132	R C

	Page.	Vol.		Page.	Vol.
Glamorgan tp.—Con.			Glen Lake Mining Co.		
Nickel ore in.....	231	vii	Capital and date of charter.....	28 A	xvi
pyrrhotite	200 A	xvi	Morris, S. DUMFRIES TP., BRANT CO.		
Railway through, for iron development.....	61	ii	Rocks near	115 B	xiii
Rocks in, Grenville series.....	56 B	xiii	Robertson, LOCHIEL TP., GLEN-GARRY CO.		
marble	83	R C	Limestone quarries at.....	46 B	xiii
syenite	57 B	xiii	Trenton formation at.....	48 B	xiii
	226, 228	vii	Roy, SCOTLAND.		
	215	viii	Beaches at.....	225 A	xiii
Glasgow, SCOTLAND.			Glenannan, TURNBERRY TP., HURON CO.		
Apatite shipments to, 1884-85....	443	R C	Brick-yard at.....	57 B	xv
Exhibition at, good for Canadian mica	28	xi	Glencoe, EKFRID TP., MIDDLESEX CO.		
Experiments at, with nickel-steel.	383	R C	Oil at.....	55	R C
See also Riley, James			Salt at.....	160	R C
Nickel refinery at.....	175 C	xiv	Glendinning, George See next ref.		
Steel ships first built at.....	368	R C	Blair and Kerr.		
Glass, George W.			Silver mining by, Coleman tp... 15 B	xiv	
Gold mining by, Manitou Lake dist.....	76	viii	7, 80, 85 A	xv	
	62	ix	Glendower iron mine, BEDFORD TP., FRONTENAC CO.		
Manager, Glass Reef mine.....	99	x	Boring at, with Govt. drill.....	32	iv
	248	xi	5, 228	v	
Glass.			Notes on.....	58	ii
See also Mirrors.			by Bawden (historical) 133, 134	R C	
Arsenic for making	111, 114	xi	Folger (capacity)... 135	R C	
	32 B	xiv	Gibson and Miller.. 227	v	
Cobalt for staining.....	74, 75 B	xiv	Merritt	128	R C
Composition of flint, plate and window.....	118, 119	xi	Ore from, exhibited at World's Fair.....	81	ii
Fluo-hydric acid for etching on..	447	R C	Scapolite rock from, notes	229	viii
Iron pyrites for making.....	256	v	photo ..216, 217	viii	
Lime for making.....	5, 6 B	xiii	Sulphur in.....	86	ii
Natural gas in manufacture of... 159	i		Glengarry co.		
Potsdam sandstone for.....	40	R C	Limestone in, notes by Miller... 46 B	xiii	
Sand for making, Abitibi river... 159 A	xiii		Glennevis, LANCASTER TP., GLEN-GARRY CO.		
Missinaibi river. 128	iv		Calcareous formation at	46 B	xiii
Stone for making, L. Huron ... 94	i		Glenny, Robert		
Works for making, Port Colborne, suggested.....	128	i	Evidence by, before R. C..... 121	R C	
Reef gold mine, MANITOU LAKE, R.R.D.			Gypsum mining by, near Cayuga. 242	i	
Notes on.....	99	x	252	ii	
retrospective.....	248	xi	See also next ref.		
Photo of.....	80, 81	x	gypsum mine, GRAND RIVER.		
Reef Gold Mg. Co.			Idle, 1892.....	253	ii
Board of Directors.....	99	x	Notes on.....	241	i
Capital and date of charter.....	10	ix	by owner..... 121, 122	R C	
Work by, 1899.....	62	ix	Glenora, MARYSBURG TP., PRINCE EDWARD CO.		
Glasser, E.			Terraces at.....	240 A	xiii
Notes by, on nickel deposits of New Caledonia.....	147-150, 157 C	xiv	Glenwood, E. TILBURY TP., KENT CO.		
Ref. to work by, in New Caledonia.....	69 B	xiv	Oil piped to, from Tilbury field. 97 A	xvi	
Glaucodot.			Glidden, J. N.		
Composition of.....	204	xi	Mica mining by, Bedford tp.... 133	x	
Glaconite.			Globe Refining Works.		
Difference between, and greenalite	164 A	xv	Graphite mining by, near Port Elmsley	22 A	xiv
Origin of	165 A	xv	23 A	xv	
Rama tp.....	198	ix	25 A	xvi	
Gleason, Thomas W.	68	viii	Glossary.		
Glen Allan, PEEL TP., WELLINGTON CO.			Of geological and mining terms, by Bell.....	528-545	R C
Gas well in, log.....	110, 114 A	xv	Gloucester, Duke of (1774)		
Trenton formation at, height above tide level	113 A	xv	Interested in copper mining, L. Superior.	93	R C
lake, COLEMAN TP., NIP.			209	v	
Silver veins south of.....	33, 34 B	xiv			

	Page.	Vol.		Page.	Vol.
Gloucester tp., CARLETON CO.			Goderich.—Con.		
Limestone in, analysis.	38 B	xiii	Salt at, depth.....	55	R C
Marl in, analysis.....	39 B	xiii	discovery.....	21 A	xiii
Oil in, boring for. <i>See</i> Ramsay-ville.			ref. to Hunt's report on.	184	R C
Peat in.....	190	i	works.....	111	ix
	197	ii		22 A	xiii
Glover, Sir John	220, 221	i		20 A	xiv
tower.			Section of strata near.....	67 B	xiii
For pyrites ores, description....	194 A	xvi	Cement Brick Co.		
Gnats.			Capital and date of charter.....	24 A	xiii
Mississagi River dist.....	172	xii	Plant of, photo.....	115 B	xv
Gneiss.			Godfrey, C. H. <i>See</i> Godfrey mica mine.		
As a building-stone.....	134	iii	mica mine, HINCHINBROOKE TP., FRONTENAC CO.		
Canoe lake, petrography.....	95	v	Notes on, 1891.....	245	i
Carlow tp., analysis.....	227	vi	Godmanchester tp., HUNTINGDON CO., QUE.		
Definition of.....	9, 534	R C	Peat in. <i>See</i> Huntingdon.		
	236	vi	Godon family, The, (A.E.J.N. AND T.)		
Effect on, of metamorphism	65	i	Mining by, in Michipicoten div.	103	viii
French river.....	66	i		115	ix
Georgian bay.....	67	i		141	x
Indian lake (N. of Ignace), sketch of contact with granite.....	162	vii		74	xi
Kashabowie lake, petrography..	95	v		66	xii
sketch.....	96	v		48 A	xiii
Lake Huron, north of.....	74	i	lake, MICHIPICOTEN DIV., ALG.		
Lake of Bays, Th. B. d. sketch showing contact with hornblende-schist.....	167	vii	Beaver north of.....	293 A	xiv
Lake of the Woods dist :—			Iron ore near.....	315, 327, 331 A	xiv
enclosing Keewatin schist, photo.	80, 81	vii	Minor ref. to.....	286 A	xiv
Kashegogamog lake, petrography.....	146	vii	Pyrrhotite near, prospecting for.	332 A	xiv
Kenora, quarried for building.	76	iv	Rocks on and near.....	305, 306	v xiv
Quarry island, quarried for masonry.....	14	iii	Goethite. <i>See</i> Amethyst.		
Lake Superior, north shore.....	74	i	Goetz family (Alois, George, Johanna, Mary, P. AND Ruth).		
	129	vi	<i>See also</i> Goetz iron claims.		
Notes on, by Bell.....	9, 10	R C	Goetz lake named after.....	158	ix
Onaping (near), photo.....	66 C	xiv	Iron mining by, Michipicoten div.	103	vii
Ottawa valley, thickness.....	65	i		100, 103, 254, 256	viii
Paul lake, Sturgeon river ...	69	i		113, 116	ix
Rainy Lake dist., petrography.	77-81	iv		141	x
Timagami lake.....	69	i		168	xi
Wabigoon Lake dist.....	183	vii	iron claims, MICHIPICOTEN DIV.		
Wanapitei, photo of structure.	124, 125	vii	Description of, by Moore.....	181 A	xv
agglomerate.			Section of, showing rocks.....	183 A	xv
Cradle creek, Magpie river, photo.	345 A	xiv	lake, MICHIPICOTEN DIV.		
conglomerate.			Iron belt near, compared with		
Exhibit of, at World's Fair.....	186	ii	Vermilion range, U. S....	175	xi
granitoid			Minor ref. to.....	154	xi
Rainy lake, photo.....	77.	iv	Notes on, by Coleman.....	158	ix
Sudbury dist., petrographical notes.....	292, 293	xii	Rocks on and near:		
Gobbins, J. P.	103	vii	cherty limestone.....	196	x
Godard copper mine, FOLEY TP., P. S. D.	168	ix	conglomerate.....	203	x
Goderich, GODERICH TP., HURON CO.			dike rocks.....	214 A	xiii
Artesian wells of.....	56	i	greenstone.....	157	xi
Cement works at, photo.....	115 B	xv	petrographical notes.....	179, 182	xi
Corniferous formation near....	46	R C	Goff's mill, FOLEY TP., P. S. D.		
Erie clay at, analysis.....	14 B	xv	Limestone at.....	95 B	xiii
photo.....	12, 13 B	xv	Gogebic iron range, MINNESOTA.		
Onondaga formation at.....	45	R C	Exhaustion of ore of, possible...	8 A	xiii
Salt at. <i>See also</i> Attrill's well.			Iron shipments from, 1884-88...	226	R C
boring for, notes by McEwan.	54, 190	R C	1892-3....	146	iii
Ransford.	189	R C	Gold.		
record.....	185	R C	Alluvial, notes by Gracey, on values of gravels.....	257	vii
			Association of, with arsenic, occurrences.....	104-106	xi
			Determination of.....	452	R C
				203	vi

	Page.	Vol.
Gold.—Con.		
Formula for (native).....	201	vi
Hardness of (native).....	202	vi
Milling of, notes by Hardman. 237-243		vi
waste in slimes.....	452	R C
Mining of, retarded by duties... 217		R C
Occurrences of.....	199	ix
modes of.....	206	vi
Prospecting for, suitable regions. 120		vi
with divining rod. 108		vi
Specific gravity of (notes).....	202	vi
Value of.....	206	vi
 		
Australia, boring for.....	165	iii
Victoria.....	233	v
mode of occurrence... 71		iv
Brazil, with palladium.....	7 A	xiv
France, Chalanches.....	65 B	xiv
Scotland.....	115	R C
Transvaal, in kaolin.....	70 B	xiv
United States:		
Alaska, Treadwell mine.....	27	R C
Black hills, S. Dakota, mode of occurrence.....	71	iv
California, mode of occurrence.....	71	iv
Grant co., Oregon, mode of occurrence.....	71 B	xiv
Production, 1887.....	213	R C
1888.....	525	R C
Rainy lake, Minn.....	13	iii
53, 54		iv
63		v
Canada.		
Chaudière river, Que., ref. to... 118		R C
Nova Scotia, discovery.....	115	R C
notes by Selwyn. 66, 67		R C
Statistics, 1870, 1880.....	209	R C
1881-1887.....	244	R C
1886-1887... 209, 213, 243		R C
1888.....	525	R C
ONTARIO.		
Alluvial, rarity of, reason for ... 192		ii
72		iv
119		vi
<i>See also</i> Cobalt lake.		
Mississagi river.		
Onaping lake.		
Savant lake.		
Vermilion river.		
Wanapitei river.		
Distribution.....	2 Bull.	i
191, 192		ii
219		v
199		ix
in Huronian, notes		
by Bell.....	25-29	R C
notes by Blue.....	175	i
8		v
Merritt.. 106-110		R C
Earliest record of.....	114	R C
Evidence <i>re</i> , before R. C.....	110-116	R C
Industry of, 1897, notes by Coleman.....	143, 144	vii
Mining of, reports by officers of Bureau:		
1891.....	222-225	i
1892.....	231-239	ii
1894.....	225-237	iv

Gold.—Con.

	Page.	Vol.
Mining of, reports by officers of Bureau.— <i>Con.</i>		
1895.....	261-266	v
1896.....	47-61, 248-270	vi
1897.....	35-93	vii
1898.....	39-99	viii
1899.....	35-83, 89-94	ix
1900.....	69-108, 114-118	x
1901.....	231-298	xii
1902.....	77-96, 108-112	xii
1903.....	59-72, 93 A	xiii
1904.....	45-59, 76, 77 A	xiv
1905.....	48-59 A	xv
1906.....	52-60, 74-76 A	xvi
Papers and reports on, by:		
Blue.....	11-61	iii
Coleman.....	35-100	iv
. (western).....	Bull. i	
47-106		v
71-124		vi
110-144		vii
Miller (eastern).....	186-207	xi
Royalties on, abandoned.....	128	v
Statistics of, 1870, 1880.....	210	R C
1888.....	72, 210	R C
1892.....	9, 11	ii
1893.....	8 Bull	i
ix		viii
8, 10		iii
1894.....	11, 25	iv
1895.....	4, 11, 18	v
ix		viii
1896.....	13, 47	vi
1897.....	15, 28	vii
1897-98.....	Preface, Pt. ii	vii
Pt. iii		vii
1898.....	11, 21	viii
1899.....	ix	viii
13, 18		ix
1900.....	7, 11, 12, 37	x
1900-1901.....	7	x
1901.....	8, 9, 12-14	xi
1902.....	12-14	xii
1903.....	2-5 A	xiii
1904.....	1-4, 43 A	xiv
1905.....	1-4 A	xv
1906.....	3-7 A	xvi
Addington co.		
Marble lake.....	41, 42 A	xv
Algoma dist.		
Algoma-Nipissing line. 171, 174, 179-184		vi
Bruce mines.....	37	iii
Galbraith tp.....	37-45	iii
Lacloche mtns.....	59	R C
Lake Huron, evidence before R. C. 114		R C
Mattagami river.....	181	x
180 A		xvi
Michipicoten div.		
associated with iron.....	183 A	xv
Chippewa lake.....	202	viii
discovery.....	175 A	xv
Goulais river.....	203	viii
Michipicoten (near).....	202	vii
Michipicoten river.....	192	vii
Missinaibi (alluvial).....	197	vii
notes by Willmott.....	9-11 Bull.	iii
145, 146		viii
95		xi

	Page.	Vol.
Gold.—Con.		
ONTARIO:—Con.		
Michipicoten div.— <i>Con.</i>		
report, 1897.....	101, 184-205	vii
1898.....	100, 101	viii
1899.....	112-118	ix
1900.....	137-144	x
1901.....	72, 73	xi
1902.....	78-80	xii
1903.....	46, 47 A	xiii
Wawa (near).....	194	vii
Mississagi river (alluvial)	149	viii
163, 164	xii	
Night-hawk Lake reg.	129, 130	ix
notes by Miller	221 A	xvi
Niven's base-line and S. of.....	141	ix
Sault Ste. Marie region.....	59, 60	R C
Sudbury dist.	92	i
associated with copper	89	R C
nickel	283	xii
151, 153 C	xiv	
Creighton tp.	45-47	iii
Denison tp. 26, 59, 105-108, 112,		
113, 205, 425, 426	R C	
31, 32 C	xiv	
Donnegana lake.....	187	x
evidence before R. C.	112-114	R C
Fairbank tp.	47	iii
Graham tp. (alluvial).....	105	R C
(reef)	112	R C
Onaping lake (alluvial)	258	vii
187	x	
Thessalon river.....	66, 203	R C
Vermilion river and vicinity.		
notes by Gibson.....	17, 18	xi
Gracey	256-259	vii
report by Coleman.....	151-159	x
Wallace mine (near).....	59	R C
Wellington mine	37	iii
Frontenac co.		
Barrie tp.	203	xi
Hastings co.		
Discovery and early mining... 53-55	iii	
Prospecting, 1897.....	234	vii
Madoc tp., discovery.....	35	iv
formation	39	iv
<i>See also</i> Madoc and Marmora tps.		
Nipissing dist.		
Abitibi lake, notes by Miller. 219, 220 A	xvi	
Algoma-Nipissing line. 171, 174, 179-184	vi	
Bucke tp., with cobaltite..... 23, 31 B	xiv	
Cobalt lake, auriferous sand 9 A	xv	
Larder lake, discovery.... 6, 55, 219 A	xvi	
report by Brock. 202-218 A	xvi	
MacLennan tp., notes on boring		
for.....	229, 230	v
Timagami Lake reg	56, 57	R C
Arsenic lake (near)	73 A	xiv
Emerald lake.....	175	x
Rabbit lake.....	29 B	xiv
Wanapitei lake	112	R C
92	i	
13	iii	
river	258	vii
Parry Sound dist.		
Foley tp., notes by Coleman. 98-100	iv	
<i>See also</i> McGown mine.		

	Page.	Vol.
Gold.—Con.		
Peterboro' co.		
Belmont tp.	4	i
51, 52	iii	
notes by Blue.....	47-50	iii
Chandos tp., prospecting for....	215	viii
Harvey tp.	213	xiii
Rainy River dist.		
Fourth base line, traces	177	vii
Fifth meridian.....	179	vii
L. of the Woods dist.		
discovery	122	iv
disputed titles	206	R C
mining by Anglo-Gold Estates. 40, 41	x	
reports by Bureau officers.		
1891.....	223	i
1892.....	231-233	ii
1893.....	13-34	iii
1894.....	68-70	iv
1895.....	168-188	v
1896.....	90-104	vi
1897.....	36-62	vii
1898.....	50-69	viii
1899.....	36-46	ix
1900.....	69-79	x
1901.....	80, 81, 250-254	xi
1902.....	93-96	xii
1903.....	59-61 A	xiii
1904.....	34, 47 A	xiv
1905.....	55-59 A	xv
60 A	xvi	
notes by Coleman.....	67, 68	iv
Sultana island	xvi	R C
<i>See also</i> Sultana g. m.		
Manitou-Wabigoon region.		
Manitou lake, alluvial.....	163	v
reports on mining:—		
1894	62-67	iv
1895.....	51-53	v
1896.....	83-87	vi
1897.....	75-77	vii
1898.....	75-76	viii
1899.....	61-64	ix
1900	97-102	x
1901	247-250	xi
1902.....	91-93	xii
1903.....	68-70 A	xiii
1904.....	51-54 A	xiv
1905.....	50-53 A	xv
1906.....	55-59 A	xvi
Wabigoon, near	171	vii
Pelican lake.....	178	vii
Rainy Lake region.		
alluvial, cause of absence.....	72	iv
early knowledge	123	iv
report by Coleman.....	40-98	iv
Seine River dist.		
Bennett tp.	152	v
Harold lake, notes by Blue. 145-148	v	
reports on mining:—		
1894.....	55-60	iv
1895.....	62-74	v
1896.....	72, 79-259-263	vi
1897.....	62-75	vii
1898.....	76-94, 263-279	viii
1899.....	64-80	ix
1900... 79-85, 93-96, 103-107	x	
1901.....	150	xi
Seine river.....	64	R C

	Page.	Vol.		Page.	Vol.
Gold.—Con.			Gold Creek gold mine, PINE PORT-AGE BAY, L. OF THE WOODS.		
Thunder Bay dist.			Notes on, 1892.....	232	ii
Lake Superior.....	60, 61, 114, 115	R C	Creek Mines and Exploration Co.		
Caribou island, prospecting for.....	111, 209	V	Capital and date of charter.....	9	vii
Jackfish bay.....	85, 104, 112, 113	V	Explorers of Canada.....	122	vii
notes by P. McKellar....	189, 190	V	Fields Co. of Michipicoten.		
Michipicoten island, legend...	112	V	Capital and date of charter.....	9	vii
Pukaskwa river, near.....	354 A	xiv	Work by, 1897.....	100	vii
Port Arthur dist., Three A mine.	28	R C	hill, LARDER LAKE, NIP.		
Shebandowan Lake dist:—			Conglomerate on.....	211 A	xvi
Moss tp. See Huronian g. m.			Hill claim, LARDER LAKE, NIP.		
Round lake.....	118	V	Rocks of.....	210, 215 A	xvi
Sturgeon Lake dist.....	46	ix	Hill Co.....	232, 235	ii
	38-40	X	Hill gold mine, NEAR BIG-STONE BAY, L. OF THE WOODS.		
	15, 16, 147, 149, 256	xi	Acquired by Britannia Cons'd. G.		
	82-90	xii	Mg. Co.....	43	ix
	59, 60 A	xiii	Evidence <i>re</i> before R. C.....	64, 116	R C
	3, 54, 55 A	xiv	Map of.....	173	V
	60 A	xv	Mill erected at.....	4	i
	4, 47, 59 A	xvi	Notes on, by Blue.....	172, 175	V
Savant lake, alluvial.....	18	xi	Coleman.....	68	iv
	89	xii	Merritt.....	109	R C
Gold and Silver Mountain Mg. Co.			1896.....	50, 98, 251	vi
Capital and date of charter.....	29 A	xvi	1897.....	37, 112	vii
and Silver Reduction Works, KENORA.			Photo of.....	128, 129	V
See Lake of the Woods Gold and Silver Reduction Co.			Work by, for Golden Gate g. m..	6 Bull.	i
Brick Mining and Development Co.			Hills Exploration and Development Co.		
Capital and date of charter.....	9	vii	Capital and date of charter.....	9	vii
Bug gold mine, SEINE RIVER DIST., R. R. D.			Horn Mining Co.		
Notes on, 1898.....	274	viii	Capital and date of charter.....	9	vii
1899.....	75, 76	ix	King Mining Co.		
Rocks in, felsite schists.....	262	viii	Capital and date of charter.....	9	vii
Bug Mining Co.			lake, L. OF THE WOODS, R.R.D.		
Capital and date of charter.....	10	ix	Auriferous veins on.....	25	iii
See also Gold Bug gold mine.			Contact veins near.....	117	R C
Bullion Mining Co.			Minor ref. to.....	112	vii
Bad gold mine owned by.....	38	ix	Leaf Mining Co.		
Capital and date of charter.....	7	vii	Capital and date of charter.....	10	ix
	10	ix	Work by, 1899.....	60	ix
Work by, L. of the Woods...117,	120	vii	Moose mine, VAN HORNETP.		
	36	ix	Accident in.....	54, 57	xi
Cliff mine, KOOKAGAMING LAKE, STURGEON RIVER, NIP.			Notes on, 1901.....	244	xi
Notes on, 1896.....	57	vi	Mountain mine, N. W. OF L. OF THE WOODS.		
1897-98.....	87, 139	vii	Notes on, by Blue.....	186, 187	V
Cliff Mg. and Development Co.			Mountain Mg. Co.		
Capital and date of charter.....	9	vii	Capital and date of charter.....	11	xi
Work by, 1897.....	139	vii	Panner mine, STURGEON LAKE, L. OF THE WOODS DIST.		
Coin gold mine, HELLDIVER BAY, L. OF THE WOODS..	53, 121	vii	Notes on, 1899.....	49	ix
Coin Mining Co.			1900.....	74, 75	X
Capital and date of charter.....	10	ix	Option money paid on, 1902....	96	xii
Work by, near Dryden, 1904....	51 A	xiv	Panner Mining Co.		
creek, MATAWIN RIVER.			Capital and date of charter.....	10	ix
Gold claims on.....	81, 82	V	Work by, Sturgeon lake.....	49	ix
Minor ref. to.....	130	V	Quarry Mining Co.		
Notes on, by Blue.....	129	V	Capital and date of charter.....	10	ix
Striae on.....	89	V	Quartz, Free Milling, Mining and Development Co.		
creek, PINE PORTAGE BAY, L. OF THE WOODS.			Capital and date of charter.....	9	vii
Hessite on.....	199	ix	Reefs Co.		
analysis.....	105	V	Capital and date of charter.....	10	ix
			Work by, Lake of the Woods...	59	ix

	Page.	Vol.
Gold Reserve Mg. Co.		
Capital and date of charter.....	9	ix
Rock, ANZHEKUMMING LAKE,		
R. R. D.		
Gold mining near, 1903.....	66 A	xiii
1904.....	52 A	xiv
1905.....	50-53 A	xv
<i>See also</i> Victory gold mine and		
next ref.		
Minor ref. to.....	98	x
Rock gold mine, ANZHEKUM-		
MING LAKE, R. R. D.		
Notes on, 1903.....	66 A	xiii
and photo, 1905.	52-54 A	xv
Rock Mining and Smelting Co.		
Capital and date of charter.....	9	vii
Work by, 1903.....	66 A	xiii
suspended, 1906.....	59 A	xvi
Standard Mg. Co.		
Capital and date of charter.....	38 A	xiii
Mine of, photo.....	48-49	xii
Work by, 1900.....	100	x
1901.....	250	xi
1903.....	68 A	xiii
Sun mine, KAKAGI LAKE, R.		
R. D.		
Photo of.....	112, 113	ix
Sun Mining Co.		
Capital and date of charter.....	10	x
Work by, 1899.....	51	ix
Winner mine, N. E. OF SAW-		
BILL LAKE.		
Notes on, 1901.....	105	x
Winner Mining Co.		
Capital and date of charter.....	10	x
Goldberg, SILESIA.		
Mispickel ores of.....	38	iv
Golden, COLORADO, U. S.		
Mining school at.....	509	R C
Paving clay from, analysis.		
Crescent (A. D. 2) gold mine,		
NEAR MINE CENTRE, R. R. D.		
Character of vein in.....	262	viii
Idle, 1898.....	277, 281	viii
Named Golden Crescent.....	273	viii
Notes on, by Blue.....	157	v
Coleman.....	64	v
1897.....	74, 75, 129	vii
1898.....	273	viii
1899.....	71	ix
1900.....	82	x
Photo of vein in.....	16, 17	vii
Crescent Gold Mg. Co.		
<i>See also</i> Golden Crescent gold		
mine.		
Capital and date of charter.....	10	ix
Work by, 1899.....	273	vii
Crown Mining Co.		
Capital and date of charter.....	9	vii
Eagle gold mine, EAGLE LAKE		
DIST., R. R. D.		
Idle, 1902.....	55 A	xv
Minor ref. to.....	49	xii
Notes on, 1901.....	244	xi
1902.....	93	xii
1903.....	64 A	xiii
Eagle mine, PRINGLE TP.,		
P. S. D.		
Rocks of.....	171	ix

	Page.	Vol.
Golden Eagle Mining and Explora-		
tion Co.		
Capital and date of charter.....	10	ix
Work by, 1901.....	244	xi
1902.....	93	xii
<i>See also</i> Golden Eagle g. m.		
Fissure Gold Mg. Co.		
Capital and date of charter.....	7	vi
9		vii
Work by, 1896.....	54	vi
Fleece gold mine, KALADAR		
TP., LENNOX CO.		
Cyanite in.....	200	ix
Notes on.....	76 A	xvi
Rocks in and near.....	200-202	xi
Tourmaline in, with mispickel.	203	xi
Gate gold mine, BIGSTONE		
BAY, L. OF THE WOODS.		
Map of.....	173, 174	v
Minor ref. to.....	21	iii
Notes on, 1896.....	6 Bull.	i
98, 251, 252		vi
1897.....	37, 38, 112	vii
Gate Mg. and Dev. Co.		
Capital and date of charter.....	9	vii
Goblin Mining Co.		
Capital and date of charter.....	9	vii
Hecla Mines Syn.		
Work by, 1900.....	108	x
Horn gold mine, RUSH BAY,		
L. OF THE WOODS.		
Notes on, 1901.....	251, 252	xi
1902.....	94	xii
1903.....	61 A	xiii
1904.....	47 A	xiv
1905.....	59 A	xv
Operating, 1904.....	4, 34 A	xiv
Photo of.....	Facing	47 A
Producing, 1906.....	6, 60 A	xv
Re-opening of, expected.....	43 A	xvi
island, NIGHT-HAWK LAKE,		
ALG.		
Gold mining on.....	220 A	xvi
Island Mining Co.		
Capital and date of charter.....	9	vii
Park gold mine, VAN HORNE		
TP., R. R. D.		
Notes on, 1906.....	59 A	xvi
Park Mg. Co.		
Capital and date of charter.....	28 A	xvi
Claims of.....	59 A	xvi
Pocket mine, NEAR ABRAM		
LAKE, R. R. D.....	177	vii
Prince Mining and Develop-		
ment Co.		
Capital and date of charter.....	9	vii
Reef gold mine. See Mikado		
Reef gold mine.		
Reef Mg. Co. (1).		
Capital and date of charter.....	9	xii
<i>See also</i> Mikado Reef gold mine.		
Reef Mg. Co. (2).		
Capital and date of charter.....	29 A	xvi
Rod Mg. Co.		
Capital and date of charter.....	10	ix
Work by, 1899.....	64	ix
Slipper gold claim, NEAR		
MOORE BAY, L. OF THE		
WOODS.....	21	iii
252		vi

	Page.	Vol.		Page.	Vol.
Golden Star gold mine, S. OF BAD VERMILION LAKE, R. R. D.			Gondreau, M.	141	x
Accident at, 1898.....	26, 27	viii	<i>Goniatis uniangularis.</i>		
1899.....	30	ix	Thedford.....	154	xii
1900.....	43	x		69	B xiii
Boring in, 1901.....	15, 16, 59, 60	xi	<i>Goniophora.</i>		
Conglomerates near.....	144	xi	Kwataboahegan river, notes....	188	A xiii
Depth of, 1899.....	35	ix	photo ...	192	A xiii
Mill at, transferred to St.			Good, George P.	99	xii
Anthony Reef g. m.....	5	A xiii	and Jones.	233	ii
Mining class at, 1898.....	281	viii	Goodburry, (NOT Goodbery) Lorenzo		
Notes on, 1897.....	73, 74	vii	Limestone from quarry of, ana-		
1898, by Bain 77, 78, 277, 278		viii	lysis.....	45, 46	B xiii
Bow.....	76-79	viii	Goodenow—?		
Coleman.....	129	viii	Limestone quarry of, Clinton		
DeKalb.....	45, 46	viii	formation.....	116	B xiii
1899, by Bow.....	66-68	ix	fossils in.....	117	B xiii
1900.....	38, 79, 80, 93, 94	x	Gooderham, Charles	44	ix
1901.....	242, 243	xi		71	x
Photos of.....	64, 65	vii	Gooderham, GLAMORGAN TP., VIC-		
Plan and section of.....	294, 295	viii	TORIA CO.		
Report (special) on, by Bow..	263-270	viii	Nepheline-syenite near.....	228	vii
Section of.....	64, 65	viii	Goodlet, William	515, 517	R C
	69	ix	Goodrow gold mine.	77	xii
Shut down, 1900.....	37	x	Goodspeed, J. W.	66	xii
Star Mining Co.			T. H.	66	xii
Capital and date of charter.....	11	xi	Goodwin, E. P.	50	A xvi
Formed from Golden Star Mg. &			W. B.	141	x
Ex. Co.....	98	x		74	xi
Star Mining and Exploration			Dr. W. L.		
Co.			Acknowledgments to.....	208	vii
Capital and date of charter.....	9	vii	Analysis by, of a columbite min-		
Work by, 1898.....	45	viii	eral.....	236	vii
See also Golden Star g. m.			Analysis by, of Tip Top copper		
Thorn gold mine, LARDER			ores.....	75	v
LAKE, NIP.			Description by, of some of the		
Rocks near.....	207	A xvi	principal minerals.....	206-229	vi
Keewatin, photo.....	209	A xvi	Notes by, on analysis of corundum		
Twins Mg. Co. See New			and corundum-bearing rocks. 238, 239		vii
Golden Twins.			ref. to.....	230, 245	vii
Valley, PRINGLE TP., P. S. D.			Notes by, on pyrites industry... 196		A xvi
Farm lands around.....	170	ix	Professor of chemistry, Queen's		
Whale gold mine, NEW KLON-			University.....	216	i
DIKE DIST., R. R. D.			Report by, on Kingston School		
As Golden Whale mine,.....	63, 64	ix	of Mines, 1898.....	259-263	vii
	90	x	Report by, 1898, on Summer Min-		
Munroe's mine.....	77	vii	ing Classes.		
	42, 73	viii	1898.....	282, 283	viii
Sakoose mine. See Sakoose			1901.....	61-69	xi
mine.			1902.....	54-61	xii
Goldenrod.			1903.....	52-57	A xiii
Abitibi dist.....	253	A xiv	1904.....	37-42	A xiv
Goldfinch, American			1905.....	39-46	A xv
Abitibi dist.....	243	A xiv	1906.....	49-54	A xvi
Goldie, T. L.			Work by, 1901.....	7	xi
Work by, 1905.....	175, 200	A xv	1902.....	9	xii
1906.....	105	A xvi	1903.....	x	A xiii
and McCulloch Co.	67	B xv	W. M.		
Golding, Isaac	105	xi	Work by, 1895.....	39	A xv
Goldspitz, BOHEMIA.			lake, LORRAIN TP., NIP.		
Melaphyre from.....	171	viii	Minor ref. to.....	35	B xiv
<i>Gomphoceras.</i>			Rocks near, Huronian.....	40	B xiv
Abitibi river.....	187	viii	Goodyear—?	19	vi
" beta.			<i>Goodyear repens.</i>		
Kwataboahegan river.....	190	A xiii	Abitibi dist.....	241	A xiv
" eximium.			Mattagami valley.....	151	A xv
Anderdon tp.....	125	xi	Goold, A. H. W.	103	vii
St. Marys.....	152	xii	E. L.	18	B xiii
	96	B xiii	Goose. See Geese.		

	Page.	Vol.		Page.	Vol.
Goose island, RAINY LAKE, R. R. D.			Gordon island, HARRICANAW RIVER,		
Fissure veins on	52, 55	iv	JAMES BAY.		
Rocks on, description	82	iv	Gypsum near	158 A	xiii
photo	77	iv	lake, FAIRBANK TP., ALG.		
lake, GOOSE RIVER, PISHKANOGAMA RIVER, ALG.	135	ix	Rocks on and near, acidic	13, 24 C	xiv
point, NEAR PORT ARTHUR,			37, 94, 134 C		xiv
TH. B. D.			gold mine, FAIRBANK TP., ALG.		
Rocks in vicinity of	149	ix	Work at, 1891	47	iii
Striae at, direction	178	ix	placer claim, UPPER VERMILION RIVER, NIP.		
river, PISHKANOGAMA RIVER, ALG.			Terrace on, altitude	211	X
Description of, by Parks	135	ix	103 C		xiv
Gooseberry.			Gore, The, NEAR HAGERSVILLE,		
Abitibi dist.	182	viii	HALDIMAND CO.		
199, 253 A		xiv	Rocks at	145	xii
Goosefeather river, KATZENBACH LAKE, ALG.	282 A	xiv	55 B		xiii
Gopher Mining Co.			Bay, MANITOULIN ISLAND, ALG.		
Capital and date of charter	11	xi	Hudson River formation at	77 B	xiii
silver mine, STRANGE TP., TH. B. D.			Limestone at, analysis	75, 76 B	xiii
Animikie formation in	225	i	quarries	80 B	xiii
Character of 'veins in	238	iv	Brick and Tile Mfg. Co.		
Inspector's report on, 1891	228	i	Capital and date of charter	25 A	xv
1892	240	ii	Lawn Mining and Development Co.		
Gordaneer, William	25	ix	Capital and date of charter	9	viii
Gordon, Lieut.			Gorenky, VLADIMIR PROV., RUSSIA.		
Notes by, on navigation of Hudson bay and strait	131, 132	iv	Peat near	218	ii
A. C.			Gorge river, NEW ZEALAND.		
Accident to, at Sawbill gold mine.	26	viii	Awaruite in	151 C	xiv
Alexander	62	ix	Gorham tp., TH. B. D.		
G. S.	103	vii	Iron ore in	69	ii
J. R.			N. L. Smith's views	77	ii
Anthraxolite on property of	3 Bull.	ii	Gorman, F. M.	239, 240	i
159		vi	and Co.		
51		x	Owners, McKinley-Darragh mine.	5 A	xiv
Creighton and Fairbank tps.	46, 47	iii	Gorringe club, COPPER CLIFF MINE.		
prospected by	236	ii	Summer Mining Classes at	87	xii
Manager, Creighton gold mine.	235	iv	Gosage mica mine, LOUGHBORO TP., FRONTENAC CO.	91 A	xiii
261		v	Goschen, George Joachim		
James	38	ix	Nickel adopted by, for armour plating	47	vi
John	127	i	Gosfield tp., ESSEX CO.		
M. B. R.	102	viii	Blast furnace in. See Olinda.		
47		xii	Natural gas in	25	vi
T. C.			depth of wells	28	v
Iron bounties paid to, 1901	26	xi	log of hole	114 A	xiv
W. C.	141	x	petition re export to Detroit.	41	xi
W. H. Lockhart			See also Kingsville.		
Evidence by, before Roy. Com. re:—			Oil in, notes on, 1890	117-120	i
Minerals in Haliburton co.	237	R C	Goshawk, American		
apatite	173	R C	Abitibi dist.	126 A	xiii
public assayers	429	R C	243 A		xiv
prospector's rights	261, 318	R C	Gossans.		
William	58	ix	Analysis of various	186 A	xvi
102		x	Gosset, J.		
Benson Cobalt Mg. Co.			Limestone quarry of, analysis ...	110 B	xii
Capital and date of charter	28 A	xvi	Gothenburg, SWEDEN.		
camp, ROSS LAKE, VERMILION RIVER.			Peat used in, for sanitation	216	ii
Gold prospecting near (alluvial).	153	x	Goudreau lake, MICHIPICOTEN DIV.		
Cobalt Silver Mg. Co.			Beach near, altitude	193 A	xv
Capital and date of charter	25 A	xv	Crystalline limestone of	192 A	xv
gold mine, RATHBUN TP., NIP.			Gossan from, analysis	186 A	xvi
Notes on, 1895	262	v	Iron pyrites on and near ...	183-187 A	xv
iron claim, S. SHERBROOKE TP., LANARK CO.	49	ii	map showing	185 A	xv
11 M.I.			notes by Fraleck. 177-180		xvi
			weathering	184 A	xvi
			Minor ref. to.	294 A	xiv
			Lacustrine deposits near	192 A	xv

	Page	Vol.		Page	Vol.
Gough=Calthorpe, Somerset F.	174	V	Gouverneur, St. LAWRENCE CO., N.Y.		
tp., ALG.			Marble of, quality	76, 80, 82	R C
Granite in	69	i		62, 63	B xiii
Goulais, A.	106	A XV	Talc mining at	100-102	• iii
bay, L. SUPERIOR.			Government diamond drills.		
Agricultural land near	103	iv	Advantage of	425	R C
Conglomerate on	203	X	Purchase of	167-172	iv
with chalcedony and jasper	72	i	Regulations concerning	172-174	iv
Copper near	99	R C		226	v
mining	101	xii	Use of, in foreign countries	164-166	iii
<i>See also</i> Eagle copper mine.			Work by, Glendower iron mine	32	iv
Geology of district of	149, 150	viii	Matawin iron range	131	v
Glacial striae near, direction	157	viii	Steep-rock Lake dist.	308	xii
Gold and silver on and near	26, 60, 68	R C	1894	174-176	iv
mining 1904	59	A xiv	1895	4, 225-233	v
Huronian on and near	157, 163, 164	viii	1900	51-56	x
Iron ore near, analysis	138, 139	xi	1901	58-60	xi
Sandstone on and near	40	R C	1902	50-53	xii
	127	viii	1903	42-45	A xiii
Mg. Co.			1904	29, 30	A xiv
Capital and date of charter	9	xii	1905	26-28	A xv
river, LAKE SUPERIOR.			1906	31	A xvi
Beaches N. and S. of, level of	155	viii	vein, Ferguson gold mine,		
Boulder-clay near	156	viii	SHOAL LAKE, SEINE RIVER	5 Bull.	i
Gold and silver prospecting on	203	viii		80	vi
Lead on	60, 203	R C	Gow, J.	28	xii
Minor ref. to	202	v	Gowan lake, McCANN TP., NIP.	111	A xiii
Notes on, by Charlton, jr.	197	viii		248	A xiv
geological	150	viii	tp., NIP.		
by Coleman	127	viii	Soil in, analysis	247	A xiv
Report on country between, and			muskeg	186, 220	A xiv
Dalton, by Charlton jr.	196-204	viii	peat	209	A xiv
Rocks on, trap	15	v	requires draining	207	A xiv
Goulbourn tp., CARLETON CO.			Trees in	220	A xiv
Limestone in, fossiliferous	37	B xiii	Gowans, R.	141	x
Peat in	190	i	Grabau, Prof.		
	198	ii	Work by, on fossiliferous rocks		
Gould, E. L.	33, 149	xii	of Thedford	154, 155	xii
	34	B xiii		69, 70	B xiii
	154	A xiv	Grace gold mine, EAGLE LAKE DIST.,		
W. E.	103	vii	R. R. D.	93	xii
Shapley and Muir.			gold mine, S. OF WAWA LAKE,		
Record of well drilled by, Brant-			MICHIPICOTEN DIV.		
ford	107	A xiv	Closing of	67, 175	A xv
lake, LOUGHBORO TP., FRONT-			Iron ore in	183	A xv
ENAC CO.			Helen formation	183	xi
Apatite mining near	251	ii	Machinery installed at, 1906	59	A xvi
<i>See also</i> Coe apatite mine.			Mining class at, 1901	68	xi
Mica mining on	133	x	1902	54	xii
	287	xi	Minor refs. to	49, 60, 61	xii
	23	A xvi	Minerals in veins of	57	xiii
prospecting near	92	A xiii	Notes on, 1900	139	x
	103	A xv	1901	72, 150, 151, 237, 238	xi
<i>See also</i> McClatchey mica mine.			1902	64, 78, 79	xii
Rocks in vicinity of	288	xi	1903	47, 64, 65, 222	A xiii
mica mine. See Gould lake.			1904	49	A xiv
Mining Co.			1905	54	A xv
Capital and date of charter	9	vii	by Coleman	222	A xiii
tp., ALG.			Photo of	64, 65	xi
Copper in	23	xi	Producing, 1902	15	xii
chalcocite	196	ix	1903	4	A xiii
mining	37	viii	Mining Co.		
<i>See also</i> Cheney mine.			Capital and date of charter	11	xi
prospecting	25	vii	Working Grace gold mine	64	A xiii
Goulet, Albert	185	v	<i>See also</i> " "		
Alfred	185	v	Gracey, Arthur H.		
Fred	49	ix	Paper by, on placer gold, Ver-		
Gourlay, Robert	319, 327	R C	million river	256-259	vii
			refs. to	151, 154-159	x
				17	xi

	Page.	Vol.
Grackle, bronzed		
Abitibi dist.....	126	A xiii
Grady, Michael		
Evidence by, before R. C. re:—		
Glendower iron mine.....	135	R C
Iron, Kingston dist.....	52	R C
ref. to.....	58	ii
	227	v
lake, BANGORTP., HASTINGS CO.	220	vii
Graelle, Paul.....	34, 35	A xv
Graf, Anton		
Designer of smelting works, Sud-		
bury	99	ix
	144	C xiv
Graff, Bennett and Co.		
Labour employed by, statistics..	370	R C
Grafton, HALDIMAND TP., NORTHUM-		
BERLAND CO.		
Beaches at and near.....	239	A xiii
altitude	222	x
Graham, Mrs. A.....	103	viii
F.....	216	viii
G. A.....	264	vi
Henry	395	R C
J. C.		
Iron mining by, Atikokan range. 72, 73		ii
	35	x
J. W.....	28	xii
W.....	98	A xvi
W. M.....	103	vii
	48	A xiii
brickyard, OTTAWA.		
Fossils from	224	x
tp., ALGOMA DIST.		
Copper in..... 24, 105, 106,	425	R C
Danaite in.....	60	B xiv
Farm land in. <i>See</i> Naughton.		
Galena in.....	106	R C
Gold in.....	92	i
alluvial	105	R C
reef	112	R C
Iron pyrites in..... 142,	425	R C
	207	ix
	150	A xvi
Mispickel in, analysis.....	205	ix
Rocks in, clay-slates.....	73	i
granite	83	C xiv
greenstone.....	75	i
norite	242	xii
	32	C xiv
Grahame and Co.		
Copper mining by, Black bay, L.		
Superior.....	109	x
	275	xi
Graisie river. <i>See</i> RIGAUD RIVER.		
Gramineæ.		
Ottawa (near).....	225	x
Grand Calumet Mg. Co.		
<i>See also</i> Zenith zinc mine.		
Capital and date of charter.....	9	vii
Officers of.....	86	ix
falls, KAMINISTIKWIA RIVER.		
<i>See</i> KAKABEKA FALLS.		
Haven, OTTAWA CO., MICH.		
Record of iron furnace near.....	339	R C
Hotel Co.....	88	xi
Manitoulin island. <i>See</i> MAN-		
ITOULIN ISLAND.		

	Page.	Vol.	
Grandes Piles, RADNOR TP., CHAMP-LAIN CO., QUE.			
Charcoal making at	26	ii	
Grand portage, MISSISSAGI RIVER, ALG.	165	xii	
Grand portage, BETWEEN DORÉ AND MAGPIE RIVERS, ALG.			
Faults north of.....	311	A xiv	
Notes on, by J. M. Bell....	293, 294	A xiv	
Rocks south of.....	305	A xiv	
Grand portage, PIGEON RIVER, TH.B.D.			
Fort built at, by Northwest Co.	193, 199	v	
copper mine. <i>See</i> Cheney mine.			
island, L. SUPERIOR.			
Animikie rocks on.....	31	R C	
Grande Presqu'île, L. OF THE WOODS.			
Notes on, by Coleman.....	115-120	vii	
Rocks on, petrographical notes.			
	145, 146, 155	vii	
Grand rapid, MATTAGAMI RIVER.			
Fall of.....	32	B xiii	
Forest fires near.....	177	A xiii	
Iron ore at	9	A xiii	
clay iron-stone.....	47	R C	
	32	B xiii	
limonite.....	138, 152-156	A xiii	
notes	317	xii	
and analysis.....	126	iv	
spathic	77	ii	
Length of.....	32	B xiii	
Ochres near.....	128	iv	
Soil near	176	A xiii	
Grand rapid, MISSINABIBI RIVER, ALG.			
Marine deposits near.....	137	vi	
rapids, KENT CO., MICH.			
Alabastine manufactured at....	254	ii	
Rapids Oil Co.	24	vi	
Recollect falls, FRENCH RIVER.			
Syenite on.....	67, 84	i	
river, L. ERIE.			
Boring on, for gas.....	137	i	
Cement quarry on.....	55	R C	
Gypsum on	110-113	i	
	199	ix	
	23	x	
	21	A xiii	
	52-54	B xiii	
analysis	56	B xiii	
mining, 1891	241-243	i	
	1902	38	xii
<i>See also</i> Paris mine.			
Excelsior mine.			
Martindale mine.			
Torrence mine.			
mining, evidence be-			
fore Roy. Com.			
	45, 54, 121, 122	R C	
production, 1905	24	A xv	
	1906	25	A xvi
unsafe condition	4	i	
notes... ..	147	xii	
by Blue.....	19	iv	
Merritt	119	R C	
sulphur in beds.....	22	A xvi	
Rocks on, Guelph.. 33, 114, 115,	121	B xiii	
Onondaga limestone..	115	B xiii	
analysis	147	xii	
	34	B xiii	
Waterpower on.....	279	vi	

	Page.	Vol.		Page.	Vol.
Grand Plaster Co.			Granite.—Con.		
Merritt gypsum mine owned by... 242	i		Rainy River dist.— <i>Con.</i>		
Notes on works of..... 111	i		Lake of the Woods :—		
Trunk R'y.			Bag bay, plan showing alter-		
Bridge of, at St. Marys, photo.. 96, 97	B xiii		ation with trap..... 64, 65	viii	
Iron works of, Hamilton..... 329	R C		petrographical notes..... 155	vii	
Peat experiments by... 199, 203-205	i		Regina bay..... 91	vi	
197	ii		mine, notes by Cole-		
Pacific R'y.			man..... 184, 185	v	
China clays to be opened up by.. 9	A xiii		Rainy Lake dist., notes by		
Iron ores to be opened up by.... 17	A xiv		Coleman.... 48, 49	iv	
Valley Peat Products.			petrography. 88-90	iv	
Capital and date of charter..... 24	A xiv		Seine river, gold mining in.... 5	Bull. i	
Grange island, L. SUPERIOR.			Shoal lake, sketch of vein in. 66	v	
Sandstone quarries on..... 79, 235	R C		with anorthosite. 81	vi	
Grangesberg, SWEDEN.			Wabigoon and vicinity..... 183	vii	
Wenstrom separator used at.... 328	xii		notes..... 279	viii	
Granite.			Spanish River dist..... 68, 69	i	
Canada, production, 1870, 1880,			Stony lake, Peterboro' co. 212	viii	
1887..... 209	R C		Sturgeon lake, Th. B. d., petro-		
1886, 1887. 243	R C		graphy..... 105	xii	
Cornwall, Eng..... 540	R C		Sudbury dist..... 69	i	
162	A xv		analysis, notes and photos.		
For building purposes, notes by			82, 83, 123-125	c xiv	
Coleman..... 134, 136	iii		McKim tp., photo..... 54	c xiv	
For monumental purposes..... 234	vii		Timagami dist..... 164, 165	x	
For street-paving..... 105	iii		Wanapitei lake, notes on..... 150	vii	
Notes on, by Miller..... 233, 234	vi		gneiss.		
Production, 1870, 1880, 1887.... 210	R C		Exhibit of, at World's Fair..... 186	ii	
Prospecting in ranges of, advis-			porphyritic See Porphyritic		
able..... 466	R C		granite.		
The Great Huronian belt, notes			porphyry.		
by Bell..... 81	i		Magpie river, petrography..... 176	xi	
||			Granite, GRANITE CO., MO.	352	R C
Animikie iron range, petrographi-			island, BLACK BAY, L. OF THE		
cal notes and photo..... 161, 163	A xv		WOODS.		
Cobalt dist., petrographical notes. 45	B xiv		Galena on..... 38	R C	
Eagle river, L. Superior, photo.			198	ix	
348-351	A xiv		lake, L. OF THE WOODS		
Frontenac co :—			Auriferous vein near..... 25	iii	
Bedford tp..... 52	R C		lake, STURGEON LAKE REG., TH.		
Kingston, notes by McLean... 74	R C		B. AND R. R. D..... 88	xii	
Merritt.. 83, 84	R C		Mountain Mg. Co.	353	R C
Palmerston tp..... 218	v		Granitelle.		
Willetsholme, quarrying..... 297	xi		Composition of..... 534	R C	
Ganonoque, near..... 296, 297	xi		Granite.		
Hastings dist., notes by Miller.. 212	vii		Composition of..... 534	R C	
Kaladar tp., petrographical notes. 207	xi		Grant, Finlay D.		
Lake Superior, north shore..... 129	vi		Gold prospecting by, Michipi-		
Black bay..... 205	R C		coten div..... 82, 103,	197	vii
for quarrying..... 61	R C		G. H. 141	x	
Gargantua cape..... 67	iii		G. M. 178	iii	
Jackfish bay, sketch of dike in. 84	v		J. D. 98	A xvi	
petrography. 103, 104	v		Sir James		
Loon lake, notes on..... 255	A xiv		Evidence by, before Roy. Com. <i>re</i> :		
Mattagami valley, petrographical			phosphate industry..... 180	R C	
notes..... 134	A xv		technical instruction..... 424	R C	
Mattawishguaia river..... 209	x		Views of, <i>re</i> mining men..... 168	i	
Michipicoten div., petrography. 176	xi		Capt. James A.		
Rainy River dist.			Smelting furnace found by, in		
altered, with auriferous veins. 86, 87	v		Africa..... 355	R C	
auriferous, notes by Coleman.			Dr. John		
101-103	v		Mica mining by, Loughboro' tp. 135	x	
Bad Vermilion lake, contact			103	A xv	
with Keewatin, photo..... 64, 66	vi		Peter 26	A xiv	
Caribou lake..... 63	iv		Dr. U. S.		
Ignace..... 129	xi		Notes by, on Little American		
Indian lake, sketch of contact			mine..... 54	iv	
with gneiss..... 162	vii		Wiegand mine. 56, 57	iv	

	Page.	Vol.		Page.	Vol.
Grant, Dr. U. S.—Con.			Graphite.—Con.		
Refs. to surveys by, Rainy Lake			Cobalt dist.....	xi A	xiii
reg..... 83, 89, 92, 93	iv			12 B	xiv
67, 97, 98	v		Denbigh tp.....	27	xii
151	vii		Kinmount (near).....	93 A	xiii
work by, Mesabi range.. 159 A	xv		Lutterworth tp.....	57 B	xiii
and Richardson.			North Elmsley tp.....	181	R C
Inventors of refining process,			MacCue (Oliver Ferry).....	196	iii
nickel matte.....23, 24	iv		boring for.....	59	xi
co., OREGON.				26, 50, 53	xii
Cobalt shipments from, to France. 61 B	xiv		mine, closed down.....	93 A	xiii
lake, MANITOU DIST., R. R. D.	87	vi		22 A	xiv
mica mine, LOUGHBORO' TP.,				106 A	xv
FRONTENAC CO.			notes..	35	vi
Idle, 1892.....	249	ii		134, 135	xii
Notes on, 1895.....	278	v	output, 1905.....	23 A	xv
Grantham tp., DRUMMOND CO., QUE.			re-opened.....	87 A	xiv
Bog-iron ore in.....	28	ii	Occurrences of.....	199	ix
tp., LINCOLN CO.				12, 92 A	xiii
Carbide factory in. <i>See</i> Merrit-			Otter station.....	187	vii
ton.			Port Arthur dist.....	58 B	xiv
Iroquois beach in. <i>See</i> Homer.			Porter inlet, Red-gut bay, Rainy		
Grantley, WILLIAMSBURG TP., DUN-			lake.....	86	viii
DAS CO.			Pringle tp.....	170	ix
Limestone near.....	40 B	xiii	Roberts bay, Muskoka dist.....	81 B	xiii
Chazy.....	47 B	xiii	Seeley Bay (near).....	230	vii
Granulite.			Silver islet.....	35	R C
Composition of.....	534	R C		124	ix
<i>Graphalium decurrens.</i>				55 B	xiv
Abitibi Lake dist.....	242 A	xiv	Sudbury and Timagami dist.....	168	x
Graphic granite.			Whitefish lake, Brougham tp.		
Reason for name.....	535	R C	discovery.....	34	vi
tellurium. <i>See</i> Sylvanite.			floods.....12, 92 A	xiii	
Graphite.			notes.....	30	v
Canada, production, 1870, 1880..	209	R C		27	xi
1886-87. 209, 243	R C			26	xii
1888.....	525	R C	production, 1897.....	23	vii
Composition of.....	166	vi	1898.....	18	viii
Crystallography.....	186	ii	prospects good.....	14	ix
Definition of.....	535	R C	<i>See also</i> Black Donald m.		
Determination of.....	204	vi	paint.		
and value.....	219	vi	Composition and uses of.....	463	R C
Exhibit of, at Pan-American			Grass lake, Moss TP., TH. B. D.		
Exhibition.....	87	xi	Notes on vicinity.....	121	v
Erzebirge, Saxony.....	165	vi	Route from, to Shebandowan lake. 125	v	
analysis.....	166	vi	Grassett, MICHIPICOTEN DIV.		
Foreign countries.....36, 37	vi		Minor refs. to.....3, 5 Bull.	iii	
Hardness of.....	201	vi		185, 186	vii
Mining of, 1902, notes on....132-134	xii			294 A	xiv
Molybdenum, mistaken for.....	232	vii	Route from, to Michipicoten,		
Origin of, notes by Bell.....	13	R C	description.....199, 201	vii	
Specific gravity of.....	201	vi	road, MICHIPICOTEN DIV.		
Statistics of, 1898.....	11	viii	Rocks on S. part of, notes by		
1899.....	13	ix	Coleman.....	157	ix
1900.....11, 12	x		Grasshoppers.		
1901.....13, 27	xi		Lac Seul, Ont.	62	v
1902.....12, 13, 26, 27	xii		Grassy (ATINIMIKIE) bay, L. OF		
1903.....3, 92 A	xiii		THE WOODS, R. R. D.		
1904.....1, 3, 22 A	xiv		Gneiss on.....	113	vii
1905.....	23 A	xv	Gold mining on.....	43	vii
1906.....3, 6, 25 A	xvi		lake, METHUEN TP., PETERBORO		
United States, production, 1888. 525	R C		CO.		
			Corundum in syenite on.....	211	viii
Apatite dists.....	442	R C	lake, SEINE RIVER, R. R. D.	60, 160	v
Apsley (near).....	213	viii	portage, NICKEL LAKE, R. R. D.		
Bathurst tp.....	181	R C	Pyrites near.....	175 A	xvi
Bedford tp.....52, 134, 181	R C		Rocks on and near.....	82	iv
Canonto tp.....	203	xi			

	Page.	Vol.		Page.	Vol.
Grassy Portage bay, RAINY LAKE, R.			Gray Eagle gold mine, NEAR KENORA,		
R. D.			R. R. D.		
Gold mining north of.....	55	iv	Notes on, 1898.....	59, 60	vii
Iron ore near.....	134, 135	xi	Young & Sparling Co.		
river, LITTLE WABIGOON LAKE,			Operating salt.....	185	R C
R. R. D.			1899.....	111	ix
Geological description.....	178	vi	1902.....	38	xii
Glacial striae on.....	181	vi	1903.....	22 A	xiii
Gold mining on, 1900.....	97	x	1906.....	23 A	xvi
Minor ref. to.....	121	vii	Goose island, MOOSE RIVER,		
river, MATTAGAMI RIVER, ALG.			ALG.....	194	viii
Description of.....	127, 128	ix	Graywacke. See Greywacké.		
Log-jams on.....	130	ix	Great Beaver lake, W. OF MATTAGAMI LAKE. See Mesomekenda lake.		
Timber along.....	176	vi	Britain.		
Graton, L. C.			Armour plates used by.....	158, 159	iii
Report by, on explorations up and down the Mississagi river.	157-172	xii	See also British Admiralty.		
ref. to.....	5	xii	"Balance of trade" against, 1868-1886.....	397	R C
Grattan tp., RENFREW CO.			Business depression in, 1890-91, affects mining.....	8	i
Iron in, boring for.....	59	x	Canadian exports to, 1881-87. 244-254		R C
mining, by Canada Iron Furnace Co.....	24	xi	Cement imports from Canada:		
See also Radnor iron m.			1899-1900.....	15	x
Sphene in. See Eganville.			1901.....	33	xi
Grave lake, McCANN TP., NIP.			1902-1903.....	34, 35	xii
Description of.....	110 A	xiii	Coal from, for Ontario.....	196	ii
Minor ref. to.....	248 A	xiv	Cobalt purchasers in, terms of ..	11 A	xvi
Rocks near.....	249 A	xiv	Copper production of, 1860, 1887.	371	R C
Gravel.			Emery imports of, 1901.....	38	xi
Canadian exports of, 1881-87....	245	R C	Foreign trade of, 1894.....	8	iv
Bay Mining Company.			Geological Survey of, prevents fruitless search for coal.....	409	R C
Capital and date of charter.....	9	vii	Iron and steel in:		
pits.			consumption, <i>per cap.</i> , 1888 ...	369	R C
Davenport.....	229 A	xiii	exports to U.S., 1887.....	469	R C
Finch, fossils from and section of.	217, 218	x	industry, 1854.....	365	R C
Garden River (near).....	197	viii	1888.....	366	R C
Gladstone.....	227	x	1892.....	120-122	ii
Lyn.....	221	x	reason of success....	xvi	R C
Newington.....	227	x	prices, 1860-1890.....	84	ii
Ottawa and N. Y. R'y, fossils from.	218	x	production, 1888.....	223-224	R C
Owen Sound, photo.....	27 B	xv	various years.....	469	R C
Peninsula.....	111	vi	smelting, history of.....	360-368	R C
Trenton (near), photo.....	224, 225	x	reduction of cost....	483	R C
river, MISSISSAGI RIVER, L. HURON.			treatment.....	87, 88	ii
Character.....	163	xii	Mineral exports to, (Ont.) 1869-1888.....	211	R C
Gravell, A.			Mining lands in, notes on tenure of.....	226	ii
103		viii	laws of.....	285, 286	R C
116		ix	royalties in, extracts from report by the Commission on.....	15-47	i
48 A		xiii	schools in.....	491-494	R C
Graves island, L. SIMCOE.			Nickel exports to, 1890-94.....	177	iv
Trenton limestone on.....	89 B	xiii	Peat industry in, notes on... 187-189		i
Gray, A. M.			Roads in, superiority of.....	103	iii
141		x	Devon Consols, TAVISTOCK, ENG.		
74		xi	Arsenic mining in.....	101	xi
J. M.			Granite Gold Mg. and Dev. Co.		
81		viii	Capital and date of charter.....	9	vii
John F.			Work by, 1898.....	68	viii
61		ix	1899.....	47, 59	ix
S. H.			1900.....	89	x
103		vii			
William					
Evidence by, <i>re</i> free salt.....	236	R C			
salt making....	187	R C			
Log of salt wells at Blyth and Wingham given by.....	184, 185	R C			
W. P.					
Iron mining by, N. of Batchawana bay.....	190	x			
and Scott.					
Salt well of, Kincardine, log of..	184	R C			

	Page.	Vol.		Page.	Vol.
Great lake, MICHIPICOTEN DIV., ALG.			Green, John		
Country in vicinity of	201 A	xv	Gold mining by, Seine River dist.	227	iv
Minor ref. to	179, 200 A	xv		75	vii
Rocks on and near	202, 205 A	xv	Philip		
Iron formation	204 A	xv	Silver mining by, Bucke tp.	7 A	xv
Lake George, NORTHWEST OF L.			Walter D.	49 A	xiv
HURON, ALG.			William	48-50	x
Rocks on and near. 124, 158, 159, 162, 169		viii	bay, BOBS LAKE, FRONTENAC CO.		
Lakes, The			Limestone on	46	ii
Changes in level of:			carbonate of copper. See		
causes	137	vi	Malachite.		
notes by Gibson	102	iv	island, L. HURON	80 B	xiii
Miller	226	x	island, MOIRA LAKE, HASTINGS		
Early mining on	255	R C	CO.		
Lakes Copper Co.			Garnet on	198	ix
Capital and date of charter	10	ix	Rutile on	208	ix
Exhibits of, at Pan-American			lake, ROSS TP., RENFREW CO.		
Exhibition	86	xi	Marl on	122 A	xiv
Iron mining by, Hutton tp. 177, 178		x	Green=Meehan Mining Co.		
Not included in International			Capital and date of charter	28 A	xvi
Nickel Co.	22	xi	Green mt., U.S.		
Work by, Blezard tp.	98, 99	ix	Undulations in strata of	5	R C
	123, 124	x	vitriol. See Melanterite.		
	254, 282	xi	river, ERAMOSIA TP., WELLING-		
Lakes Portland Cement Co.			TON CO.		
Capital and date of charter	28 A	xvi	Marl from, analysis	122 B	xiii
Limestone, The, ENGLAND.			Rock Mining Co.		
Galena in	173	i	Capital and date of charter	29 A	xvi
Manitou island. See Newman			Greenalite.		
island and Manitou islands.			Difference between, and glaucon-		
Miami river, OHIO.			ite.	164 A	xv
Cincinnati group on	116	i	Greenfield, John (1850)	174, 178	ii
Northern Countrie G. Mg. Co.			Greenhill portage, MISSINAIBI RIVER,		
Capital and date of charter	10	ix	ALG.	195	viii
Northern diver. See Loon.			Greening, S. O.		
Northern Mg. Exp'n and Dev.			Gold mining by, the New Klon-		
Co.			dike	74	viii
Capital and date of charter	7	vi	Greenland	102	x
	13	vii	Archæan rocks of	7	R C
Gold prospecting by, Capreol tp. 151		x		104	iv
Wawa, near. 194		vii		245	v
Licence to	116	ix	Nickel on coast of	151 C	xiv
	141	x	Greenlaw, BERWICKSHIRE, SCOTLAND.		
Work by, 1897	100	vii	Peat bogs in, notes	187	i
1898	102, 145	viii	Greenock tp., BRUCE CO.		
Northern Oil and Gas Co.			Corniferous formation in	46	R C
Capital and date of charter	38 A	xiii	Greens creek, OTTAWA.		
Northwest Mg. Co.			Fossils from	224-226	x
Capital and date of charter	9	xii	Leda clay on	215	x
Operating Indian Joe mine	94	xii	Greenshields, J. B.		
Great Northwest mine. 62 A		xiii	Director, Marmora Foundry Co. 21		ii
Pike lake, TATATICHIPIKA			Greenstone.		
RIVER, ALG.	128	ix	See also Gros Cap greenstone.		
Pyramid, The			Bruce Mines (near), photo. 136, 137		viii
Mortar in, character of	12 B	xiii	Bucke tp., photo.	42, 43 B	xiv
Wheal Busy mine, CHACE-			Cheney mine, Mississagi river ...	170	xii
WATER, ENG.	111	xi	Definition of.	535	R C
"Great Western" ss.	203	i	Great Huronian Belt, notes by Bell. 75		i
Greece.			Larder lake, notes by Brock.	207 A	xvi
Corundum and emery in	62	vi	photos	209, 214 A	xvi
	217	vii	Loon lake, Th. B. d., notes	255 A	xiv
	241	viii	Michipicoten div., petrography. 178		xi
Historical notes	167	i	Sudbury dist., distribution	78-84 C	xiv
Greeg-?	246	iv	McKim tp., photo. 51 C		xiv
Green, Albert	30, 31	ix			
Andrew	127	xi			
Edward T.					
Agreement between, and Provin-					
cial Natural Gas Co.	132	i			

	Page.	Vol.		Page.	Vol.
Greenwater lake, SHEBANDOWAN LAKE DIST.			Grey tp., HURON CO.		
Beauty of.....	203	v	Marl in.....	162	A xiv
Description of.....	126	v	Greywacke.		
Iron ore on.....	126, 127	v	Animikie iron range, petrographi-		
	309	xii	cal notes.....	159	A xv
associated with jasper.....	163	ix	As a building-stone.....	93	i
notes by Coleman.....	81	v	Bucke tp., photo.....	37	B xiv
Greenwood, Joseph			Definition of.....	535	R C
Gold prospecting by.....	71	viii	Huronian areas.....	73, 74	i
Killed.....	43, 50	x	notes by Bell.....	20	R C
R. AND J. W.			Loon lake, Th. B. d., notes.....	255	A xiv
Gas wells of.....	44	xi	Sudbury dist., distribution and		
Thomas			notes.....	88-92	C xiv
avenue, TORONTO.	48	ix	petrographical notes. 289, 290		xii
Brick works on, notes and photos.			Wanapitei Lake reg., petrography..	150	vii
	48, 108-110	B xv	conglomerate.		
clay for, analysis.....	8	B xv	Ramsay lake, Sudbury.....	8, 93	C xiv
furnace, NEAR MARQUETTE, U.S.			petrography.....	129	C xiv
Fuel for.....	479	R C	slate.		
Greer, John	269	v	Coleman tp., analysis.....	48	B xiv
Grenville canal, GRENVILLE CO.			Gribble, Charles	207	iv
Stone for, from Ross quarry....	99	B xiii	Griendtveen Moss Litter Co.	34	A xiii
co.			Grierson, W.	103	viii
Brick yards in, notes.....	65	B xv	William		
Limestone in, notes by Miller...	48	B xiii	Iron mining by, 1867, at Gros		
Palaeozoic rocks in.....	22	B xiii	Cap.....	145, 254	viii
Hastings unconformity.			Griffin, —?		
Paper on, by Miller and Knight.			Dynamite manufactured by,		
	221, 222	A xvi	Brockville tp.	152	A xvi
series. (or Hastings series.)			A. D. See Griffin mill.		
Deposition of.....	150	A xvi	P. H.	17	ix
Gold belt of, Eastern Ontario....	187	xi		30	x
Hastings dist.....	208, 209	vii	P. S.	59	ix
	208, 244	viii	mill.		
Notes on, by Bell.....	11	R C	Description and sketch of.....	129	A xiv
Perry tp.....	172	ix	Griffis, Silas	58	ix
Timagami dist.....	162	x	Griffith island, GEORGIAN BAY, L.		
tp., ARGENTEUIL CO., QUE.			HURON.		
Calciferous formation in.....	47	B xiii	Lighthouse on, limestone for....	49	B xiii
Peat in.....	198	ii	tp., RENFREW CO.		
Grey, Noah W.	271	xi	Limestone in.....	101	B xiii
and Bruce Oil and Gas Co.			Nepheline-syenite in.....	224	viii
Capital and date of charter.....	21	x	Griffiths, S. J.	95	xii
	11	xi	Grigg, Jonathan	124	x
Gas struck by, at Hepworth....	45	xi	Grills, John J.	116	A xv
Log of gas well of.....	109	A xv	Grimsby, GRIMSBY TP., LINCOLN CO.		
Portland Cement Co.			Iroquois beach at.....	228	A xiii
Analysis of clay and marl used by.	183	A xiv	Limestone quarrying near.....	97	i
Capital and date of charter.....	9	x	Notes and analysis.....	74, 75	B xiii
Daily capacity of cement output.	18	B xiii	Gold Mining Co.		
Notes on, 1905.....	141, 142	A xiv	Capital and date of charter.....	9	vii
Operating, 1901.....	33	xi	Work by, 1897.....	125	vii
	1902.....	31, 35	Quarry Co.		
	1903.....	17	Limestone of, analysis.....	75	B xiii
	1905.....	17	quarries.....	74	B xiii
	1906.....	20	Minor ref. to.....	97	i
antimony. See Stibnite.			Grimsthorpe, CAMPBELL TP., ALG.		
co.			Actinolite in.....	91	iii
Brick yards in, notes.....	65, 66	B xv	Galena in.....	198	ix
Cement industry in, 1902....	31, 32	xii	Talc in.....	99	iii
Iron ore in.....	43	R C	analysis.....	101	iii
Limestone in, notes by Miller...	48	B xiii	Mg. Co.		
Medina shale in, thickness.....	43	R C	Capital and date of charter.....	37	A xiii
Terraces on shores of.....	176, 177	ix	tp., HASTINGS CO.		
copper. See Tetrahedrite.			Actinolite in.....	192	ix
siding, NEAR TIMAGAMI, NIP.				27	xi
Arsenic at.....	74	A xvi	Steatite in.....	210	ix
mining. See Big Dan mine.			Talc in.....	210	ix
Little Dan mine.				205	xi

	Page.	Vol.		Page.	Vol.
Grindstone.			Grouse, ruffed		
Canadian production, 1886-7....	243	R C	Abitibi dist.....	126	A xiii
Duty on, into U. S.	228	R C		243	A xiv
island, L. ONTARIO, U. S.			Grover, M. B.	116	ix
Beaches on.....	242	A xiii		141	x
Granite quarrying on.....	296, 297	xi		74	xi
pt., L. SUPERIOR, ALG.			Gruenerite schist.		
"Arcadia" wrecked at.....	189	A xv	Michigan, U. S.....	151, 162	ix
Griqualand, S. AFRICA.			Michipicoten div.....	184	xi
Diamonds in.....	123	ix	Grumbine, S.	48	A xiii
Griswold, C. T.	64	A xvi	<i>Grus americana.</i> See Crane, white		
Grit.			<i>Grypidula galeata.</i>		
Definition of.....	535	R C	Kwataboahagan river.....	186	A xiii
Grosbeck, Alex. J. AND C. C. See			Guanacevi, DURANAGO STATE, MEXICO.		
Boerth Mining Co.			Cobalt minerals in.....	71	B xiv
Groggery. See Saloons.			Guano beds.		
Gronal, G.			Peru, apatite in.....	441	R C
Ref. to work by, on iron ore, Pit-			Gudewill, George	30	x
karanta, Finland.....	338	xii	Gueguin, Rev. Father		
Separator of. See next ref.			Views of, on land east of Moose		
Delvick separator.			River basin.....	204	v
Desc iption of.....	329	xii	Guelph and Kelso.	28	xii
Gros Cap, L. SUPERIOR.			Guelph, WELLINGTON CO.		
Beaches from, to C. Gargantua. 153, 155		viii	Bore-hole record at.....	150	xii
Cupriferous amygdaloids at.....	67	R C		123	B xiii
Description of.....	153	xi	Flora of.....	241	A xiv
Iron ore at.....	23	R C	Guelph formation in.....	45	R C
analysis.....	56	ii	33, 120, 121		B xiii
hematite.....	64	ii	analysis.....	122	B xiii
mining.....	68	R C	named after.....	44	R C
	145	viii	Iron works at.....	329	R C
Rock at and near .126, 164, 168, 171		viii	Lime-kilns at.....	14	A xiii
156-161, 165, 183		xi	photo.....	126, 127	B xiii
ferruginous chert.....	317	A xiv	Meteorological observations at. 129, 130		A xiii
greenstone.....	178	xi	149, 239		A xiv
	114	A xvi	Natural gas piped to.....	23, 108	A xv
Keweenawan.....	39, 67	R C		25	A xvi
schist-conglomerate.....	144	viii	R. C. cathedral at, photo..	126, 127	B xiii
trap.....	15	v	Sand, gravel and clay deposits		
greenstone.			near.....	142, 149	xii
Description and distribution. 155, 156		xi	Acetylene Gas Machine Co.	20	vii
Goetz claims, Michipicoten div..	181	A xv	formation.		
Notes on, by J. M. Bell....	300, 301	A xiv	Composition of.....	98	A xiv
Petrography of.....	180, 181	xi	Distribution and character....	44, 45	R C
Position of, in Huronian.....	174	A xv	East Tilbury tp.....	103	A xvi
Ground-hog.			Manitoulin island.....	93	i
Abitibi dist.....	253	A xiv	Oil in, yield promising.....	23	A xvi
Groundhog lake, GROUNDHOG RIVER,			Position of, in Silurian.....	2	R C
ALG.			Romney tp.....	25	A xiii
Barley grown at.....	115	iv	Seaforth.....	54	R C
river, ALG.			Thickness of, in oil fields.....	96	A xiv
Description of.....	133	ix	Mining and Development Co.		
Huronian on.....	18	R C	Capital and date of charter.....	10	ix
	124	iv	Licence to.....	116	ix
Iron ore on.....	9	A xiii		74	xi
notes by Miller.....	315	xii		66	xii
Route to, from Minniesinagua			Work by, 1899.....	113	ix
lake.....	130, 131	ix	tp., WELLINGTON CO.		
Soil and timber along.....	114	iv	Limestone in.....	120	B xiii
	177	A xiii	quarries and kilns.....	122	B xiii
Waterpower on.....	142	ix	Guernsey, F. W.	76, 122	vii
Group.			Guerton, Charles	292	xi
Definition of term.....	3	R C	Guess, H. A.		
Grouse.			Assayer, Keewatin Reduction		
Lake of the Woods..	120	vii	Works.....	99	viii
Canada			Manager, for Ottawa Gold Mg. &		
Abitibi dist.....	126	A xiii	Milling Co. 90, 101, 102		x
	243	A xiv	Sakoose g. m.....	255	xi
			Scotty Island g. m.	42	ix
			Yum-Yum g. m....	58	ix

	Page.	Vol.
Guest and Hendric.		
Limestone quarrying by, Ancaster.	142	xii
	125	B xiii
Guggenheim, Messrs.		
Option held by, on Nipissing mines.	14	A xvi
Guillaume, Charles E.		
Ref. to work by, on nickel.	115	viii
Guinard gold mine, KALADAR TP., LENNOX CO.		
Ore of, value.	28	R C
Guinea Gold and Copper Mg. Co.		
Capital and date of charter.	10	ix
Guise, Jarvis.	32	A xv
Gull.		
Abitibi river, north of.	189	xii
Little Abitibi lake.	188	viii
L. Superior, Corbeau pt.	128	viii
Leach island.	131	viii
White Spruce harbour.	134	viii
Rainy Lake dist.	97	iv
American herring		
Abitibi dist.	126	A xiii
island, L. OF THE WOODS,		
R. R. D.		
Gold mining on.	37	vii
lake, FRONTENAC CO.		
Conglomerate on.	202	xi
lake, LUTTERWORTH TP., HALI-		
BURTON CO.		
Crystalline limestone E. of; silver		
mining on (local tradition)...	57	B xiii
lake, MICHIPICOTEN DIV., ALG.		
Country around, character.	153	xi
lake, NEAR WENEBEGON LAKE,		
ALG.	167	xii
(Kioskabic) lake, WEST OF		
KAPISKASING LAKE, ALG.	137, 138	ix
lake, WHITE-CLAY RIVER, ABI-		
TIBI RIVER.		
Notes on, by Bolton.	184	xii
river, VICTORIA CO.		
Waterpower on.	33	xii
	17	A xiii
	18	B xiii
	157	A xiv
Gum, chewing See Chewing gum.		
Gummite.		
Annaberg, Saxony.	61	B xiv
Gun(s).		
Nickel-steel for, notes by Jaques.		
	139-141	ii
Statistics, 1881.	116	ii
Wire, made at Birdstown.	118	ii
Gun cape, BRUCE CO.		
Clinton formation at.	35	B xiii
Gunflint lake, TH. B. D.		
Animikie formation on.	32	R C
	76	ii
	237	iv
	24	xi
	8	A xiii
Iron ore on and near.	22, 144	R C
	123	iv
	309, 310	xii
exhibited at World's Fair.	82	ii
Mesabi range.	65	ii
notes by Connec.	68	ii
Sedgwick.	126, 127	R C

	Page.	Vol.
Gunflint lake, TH. B. D.—Con.		
Iron, prospecting for.	67	ii
reason for magnetic pro-		
perties.	53	ii
Map of, sketch.	126	R C
Railway to, from Port Arthur,		
projected.	207	R C
Gunn, Alexander.	133	x
D. A.	66	xii
Gunnison co., COLORADO.		
Smaltite from, analysis.	71	B xiv
Gunpowder.		
Peat for, in lieu of charcoal.	215	ii
Gunter pyrites mine, CASHEL TP., HASTINGS CO.		
Notes on, by Fraleck.	163	A xvi
Gurd, A. T.		
See also Gurd and Kippin.		
Boring by, for oil, Raleigh tp.	40-42	xii
	90	A xiv
	112	A xiv
Gurd and Kippin.	24	vi
tp., P. S. D.		
Petrography of rock from. See		
Commanda.		
Gustavson, Eric.	32, 33	vii
Guthrie, John.	49	xi
Prof.	492	R C
Guyitt, Walter.	124	i
Gwillimbury, E. tp., YORK CO.		
Artesian water in. See Holland		
Landing.		
Gwynne & Co.		
Peat-drying process of.	193	
Gypsum.		
See also Selenite.		
Annaberg, Saxony.	61	B xiv
As a substitute for marble.	279	vi
Canada, production, 1870, 1880,		
1887.	209	R C
1886-87.	243	R C
1888.	525	R C
Composition of.	119	R C
Definition of.	535	R C
	240	i
Determination of.	205, 222	vi
Evidence re before Roy. Com.	121, 122	R C
Hardness of.	201	vi
Industry of, 1890.	110-114	i
1900.	23, 24	x
Mining of, Inspector's report for:—		
1891.	240-247	i
1892.	252-254	ii
1893.	196-199	iii
1894.	250-252	iv
1895.	280-283	v
1896.	278-280	vi
1897.	99, 100	vii
Nomenclature and origin.	119, 120	R C
Occurrences of.	199	ix
Paris, France.	119	R C
Specific gravity of.	201	vi
Statistics, 1870, 1880.	210	R C
1881-1887.	243, 244	R C
1888.	72	R C
1891.	6	i
1892.	7, 11	ii
1893.	7, 10	iii
1894.	11	iv

	Page.	Vol.
Gypsum. — <i>Con.</i>		
Statistics.— <i>Con.</i>		
1895	11, 20	v
1896	13, 33	vi
1897	15, 24	vii
1898	11, 17	viii
1899	12, 13	ix
1900	11, 12, 23	x
1901	13, 37	xi
1902	12, 13, 38	xii
1903	3, 4, 21	A xiii
1904	1, 3, 22	A xiv
1905	1, 4, 24	A xv
1906	25	A xvi
Sulphur associated with	22	A xvi
United States, production, 1888..	525	R C
Sandusky	120	R C
Essex co., in Onondaga formation.	115	A xiv
French river	190-193	viii
Grand river	45, 121, 122	R C
	21	A xiii
production, 1905...	24	A xv
	1906...	25
		A xv
Caledonia (near)	252	iv
mining	38	xii
notes by Johnston.	122	R C
See also Garland gyp. m.		
Desbarats (near)	269	xi
E. Tilbury tp., thickness	103	A xvi
unsafe condition	4	i
Gypsum mt.	158	A xiii
Haldimand co., Onondaga forma- tion, notes on	51, 52	B xiii
Harricanaw river	158	A xiii
Missinaibi river	178	i
Moose river	45, 69	R C
	178	i
	194	viii
	137, 156, 157	A xiii
	32	B xiii
map showing	155	A xiii
notes by Gibson	127	iv
photos	160, 161	A xiii
Onondaga formation	178	i
Paris, near	121	R C
	21	A xiii
	34	B xiii
borings for	27, 28	A xv
early history	113, 114	i
notes by Parks	147	xii
mt., ALG.-NIP. BOUNDARY LINE.		
Description of	146,	A xiii
Gypsum on	158	A xiii
Minor ref. to	138	A xiii
<i>Gyroceras.</i>		
St. Marys, near	96	B xiii
" cyclops.		
St. Marys	152	xii
" numa.		
Anderdon tp.	125	xi
Gysser, —?		
Peat process invented by	193	

H 1 gold loc. *See* Huronian gold mine.

H 2 gold loc. See Highland gold mine.

	Page.	Vol.
H 3 gold loc. See Neebish gold mine.		
H 7, 8 gold locs. See Shebandowan gold mine.		
Haanel, Dr. Eugene	144	C xiv
Haast, Sir Julian von	520	R C
<i>Habenaria bracteata</i> .		
Abitibi Lake dist.	241	A xiv
<i>dilatata</i> .		
Abitibi Lake dist.	241	A xiv
<i>hyperborea</i> .		
Abitibi Lake dist.	241	A xiv
Mattagami valley	150	A xv
<i>obtusata</i> .		
Mattagami valley	150	A xv
<i>orbiculata</i> .		
Mattagami valley	150	A xv
<i>psycodes</i> .		
Mattagami valley	150	A xv
Habermahl, F.		
Experiments by, on pyrrhotite..	164	ii
Hackberry, Iowa.		
Fossils from	183, 184	A xiii
<i>Hadena</i> . See Cut worms.		
Hadfield, R. A.		
Speech by, re Mond nickel process	119	viii
Hafod.		
Copper smelting at	375	R C
Hagarty tp., RENFREW CO.		
Allanite in	193	ix
Cambro-Silurian in. See Killaloe.		
wharf, S. BURGESS TP., LEEDS CO.		
Mica mining near	194	iii
Hagedorn, C. K.	116	ix
Hagerman tp., P. S. D.		
Country north of, character ...	169	ix
Limestone in	93, 94	B xiii
Hagersville, ONEIDA TP., HALDIMAND CO.		
Corniferous formation at	25	B xiii
Limestone at, analysis... 54, 55,	118	B xiii
quarry, notes	55	B xiii
Lower Helderberg formation near.	153	xii
analysis	152	xii
Contracting Co.		
Limestone quarrying by	55	B xiii
Light and Fuel Co.		
Exhibits of, at Buffalo	25	A xv
Haight, George	22, 23	vi
Haileybury, BUCKE TP., NIP.		
Clay near, photo of cutting in ...	33	B xiv
Saugeen	18	B xv
Saugeen	20, 21	B xv
Geology of vicinity, by Miller.	96-102	A xiii
Headquarters, Timiskaming Mg.		
div	38	A xv
Iron ore near	12	A xiv
Limestone at	85	B xiii
analysis	87	B xiii
quarries	83	B xiii
Mineral discoveries near	59	A xiii
Mining class at, 1904	37, 40	A xiv
1905	43	A xv
1906	49, 51	A xvi
Recorder's office at	36	A xvi
Population of, 1904	40	A xiv
Position of	96	A xiii
Wharf at, photo	24	B xii

	Page.	Vol.		Page.	Vol.
Hainsworth Steel Co.	119	ii	Hall, Prof. James		
Hair=springs.			Iroquois beach recognized by, in		
Price per ton.....	354	R C	N. Y.	225	A xiii
Haldimand co.			Views of, on Upper Laurentian. 10, 11		R C
Gas in.....	6	i	John Francis		
notes, 1890.....	128	i	Experiments by, with nickel		
by Corkhill. 90, 91, 105,	106	A xiv	steel.....	382, 386,	387 R C
number of wells producing..	39	xii		140	ii
	25	A xvi		165	C xiv
Limestone in, Corniferous.....	25	B xiii	Lewis A.	66	ix
notes by Miller..	51	B xiii	M. J. F.	178	C xiv
Natural Gas Co.			N. B.	273	viii
Capital and date of charter.....	25	A xv		72, 74	ix
tp., NORTHUMBERLAND CO.				80	x
Beaches in. See Grafton.			Peleg	141	vi
Hale, C. W.			R. J.	100	x
Gold mining by, The New Klon-			Richard	49	ix
dike.....	78	vii	W.	116	ix
	74	viii		141	x
gold mine, THE NEW KLON-				74	xi
DIKE, R. R. D.	42	viii	William		
Halenia deflexa.			McIlwraith pyrites mine found		
Abitibi Lake dist.....	241	A xiv	by	153	A xvi
Mattagami valley.....	150	A xv	G. B. & Co.		
Hales, H.			Radnor Forges blast furnace		
Brick yard of, Brigden.....	74	B xv	worked by.....	25	ii
Haley station, ROSS TP., RENFREW CO.			John & Co.	119	ii
Apatite in.....	53,	170 R C	Hallam tp., ALG.		
Marble quarried at.....	11	B xiii	Pulp mills in. See Webbwood.		
Half-breeds.			Halland prov., SWEDEN.		
Rainy Lake dist., characteristics.	98	iv	Peat in.....	219	ii
Halfway pt., L NIPIGON, TH. B. D.			Hallat, H.		
Rocks at	132	A xvi	Brick yard of, Comber.....	63	B xv
Haliastur leucocephalus. See Eagle, bald			Halleck, James		
Haliburton, DYSART TP., HALIBUR-			Iron prospecting by, Mississagi		
TON CO.			river.....	162	xii
Blast furnace in, proposed.....	395	R C	Halleflinta.		
Iron mining in.....	234	R C	Finmark (near), auriferous.....	87	v
co.			Matawin River dist.....	82	v
Apatite in.....	173	R C	Halliday, David.	98	A xvi
Geology of, notes by Miller..	186-207	xi	John		
Iron ores of, evidence before R.C.			Gold mining by, Michipicoten		
	53, 130-132,	388 R C	div.....	104, 136	vii
magnetite.....	233	vii		103	viii
Limestone in, notes by Miller..	56	B xiii	Hally, James		
Marble in.....	83	R C	Peat process of.....	206	ii
Mining Co.			Halske, —?		
Capital and date of charter.....	9	vii	Electrolytic smelting studied by.	156	ii
Exhibit by, at World's Fair.....	82	ii	Halstead, S. V.		
Halite:			Gold mining by, near Rossland,		
Crystals of, shown at World's			Ont.....	227	iv
Fair.....	187	ii		186	v
Hardness and specific gravity...	201	vi	Manager, Summit Lake Mg. Co.	91	xii
See also Salt.				69	A xiii
Halkirk tp., R. R. D.			Part owner, Scramble g. m.....	49	vi
Iron ores in.....	134-136	xi		57, 59	vii
magnetite.....	75	iv	Halton co.		
Schists in, description.....	86	iv	Iroquois beach in	229	A xiii
Survey of, ref. to.....	40, 55	iv	Limestone in, notes by Miller...	57	A xiii
Hall, A.	48	xiii	Hamann, Adolph.	515	R C
C.	116	ix	Hambly, R. C.		
	141	x	Assistant in assay office, 1904...	33	A xiv
E. E.			Manager, Eldorado copper mine.	76	A xvi
Manager, Garson nickel mine...	67	A xvi	R. H.		
Gold Standard mine..	68	A xiii	Brick making by, Bowmanville.	61	B xv
H.			Thomas.	211, 212,	245 iv
Brick yard of, Cobourg.....	85	B xv	William	64	A xvi
I. D.	141	x	Hamburg, GERMANY.	287	viii
			Hamel, L.	282	viii

	Page.	Vol.
Hamil, David	125	i
Hamilton, Frederick		
Copper prospecting by, Creighton		
tp.....	100	ix
H. C.	116	ix
	141	x
	74	xi
Lord George		
Notes by, on nickel-steel.....	230	i
W. E.	104	vii
Hamilton, ANCASTER TP., WENT-		
WORTH CO.		
Altitude of.....	232	A xiii
Blast furnace at.....	329	R C
	10	xiii
	17	A xiv
completed.....	4	v
description.....	41-46	v
foundation of.....	27	x
extension of.....	22	xii
inauguration of, ref. to... 19		xii
in course of erection.... 28, 29		iv
notes on, 1896.....	38	vi
1897.....	24, 25, 97	vii
1898.....	6	viii
1899.....	14, 101	ix
photos.....	32, 33	y
probable effect on iron		
mining.....	7	v
secured for Cobalt ores....	73	B xiv
working, 1901.....	25	xi
Brick yard in, notes.....	106	B xv
Built on gravel bars.....	238	A xiii
Distance from, to Chatham.....	92	A xvi
Electric light exhibited in, 1879.	140	iv
Fossils from, mammoths.....	236	A xiii
Niagara formation..	423	R C
Flint at.....	198	ix
Gas of, compared to acetylenegas.	40	v
piped to.....	91, 106	A xiv
	23, 108	A xv
	25	A xvi
Iron consumption of.....	400	R C
Iroquois beach at.....	227, 228	A xiii
notes.....	28, 29	B xv
photo.....	28	B xv
Kaolin at.....	78, 86	R C
Lacustrine clay at.....	28	B xv
Limestone quarries near.....	123	B xiii
Medina shale at.....	128	iii
	7	B xv
"Mountain" at.....	141	xii
Niagara formation at.....	153	xii
	24	B xiii
Oil refinery at.....	157	R C
record of boring for....	112, 114	A xv
Pottery works at, notes....	118, 120	B xv
Section from, to Courtright.	100, 101	A xiv
Hamilton, MADISON CO., N. Y.		
Hamilton formation named after.	4, 47	R C
Acetylene Gas Machine Co.		
	20, 21	vii
and Toronto Sewer Pipe Co.		
Bricks of, tests on.....	130	iii
Capital and date of charter.....	24	A xiii
Clay used by, notes and analysis.	129	ii
Evidence by, before Roy. Com..	86	R C
Minor ref. to.....	15	A xiii

	Page.	Vol.
Hamilton bay, L. ONTARIO.		
Iroquois beach on.....	229	A xiii
Blast Furnace Co.		
Bounty payments to, 1900....	32, 33	x
Directors of.....	46	v
Merged in Hamilton Steel and		
Iron Co.....	14	ix
<i>See also</i> Hamilton.		
formation (Devonian).		
Bosanquet.....	422	R C
Description.....	25	B xiii
Fossiliferous beds of, notes by		
Parks.....	153, 154	xii
Kent co., thickness.....	102, 103	A xvi
Named after Hamilton, N. Y....	4, 47	R C
Nature of.....	47	R C
Occurrences of.....	25	B xiii
Position of, in Devonian.....	2	R C
Raleigh tp.....	42	xii
Section of, in oil-fields.....	99	A xiv
Sub-divisions of.....	99	A xiv
Thickness of, in oil-fields.....	96	A xiv
group (Sub-division of H. for-		
mation).		
Composition and thickness of...	99	A xiv
Iron Mining Co.		
Capital and date of charter.....	9	vii
Notes on work by.....	97	vii
Natural Gas and Mining Co.		
Capital and date of charter.....	9	vii
Nickel mine. <i>See</i> Mitchener		
mine.		
Nickel Steel Co.		
Gersdorffite on property of.....	58	xii
Steel and Iron Co.		
Award to, Pan-American Exhbn.	86, 89	xi
Bounties paid to.....	26	xi
	25	xii
	11	A xiii
	14	A xiv
Capital and date of charter.....	11	xi
Furnace of, building.....	30, 31	iv
Limestone used by, notes by C. B.		
Fox.....	14	B xiii
Limonite smelted by, from Madoc		
tp.....	154	A xvi
Minor refs. to.....	12	A xiv
Notes on, 1899.....	14	ix
Officers of.....	29	iv
Output, 1905.....	15	A xv
Producing, 1901.....	25	xi
1902.....	22	xii
Work by, 1906.....	17	A xvi
near Calabogie, 1899..	103	ix
1900..	129	x
1902..	115	xii
tp., NORTHUMBERLAND CO.		
Beaches in; brick yards in. <i>See</i>		
Cobourg.		
Hamiltonville, W. HAWKESBURY TP.,		
PRESCOTT CO.		
Limestone near.....	99	B xiii
Hamlin, F.	116	ix
	141	x
	74	xi
Hammers.		
Indian, at Mamainse pen.....	80	iii
Hammill, Dr. A. W.	89	vii

	Page.	Vol.		Page.	Vol.
Hammill, Edward	60	ix	Hankey, J. L.	103	viii
	61	A xiii	J. R.	103	viii
Hammond, Benjamin	52	A xv	Hanlan mica mine, N. BURGESS TP.,		
Herbert C.	31	v	LANARK CO.		
James			Notes on, 1900.....	131, 132	x
Acknowledgments to.....	47, 48	v	1901.....	289	xi
Distances furnished by, Shebandowan Lake dist.....	127, 130	v	1902.....	129, 130	xii
Gold prospecting by, Shebandowan Lake dist.			1903.....	12, 91	A xiii
75, 76, 80, 117, 118		v	1904, idle.....	83	A xiv
Iron prospecting by, Matawin range.....	67	ii	Hanmer tp., NIP.		
128, 131, 276		v	Clay land in.....	105	c xiv
Shebandowan Lake dist.....	126	v	Gold in.....	18	xi
Litigation by.....	92	viii	prospecting for.....	257	vii
Manager, A. L. 282 g. m.....	80	ix		152	x
	103	x	Sandstone in.....	97	c xiv
Hammond Reef g. m... 30		vii	Slate in.....	95	c xiv
89		viii	Terraces in.....	106	c xiv
Notes by, on Seine River g. m... 67		vii	Hanna, Mark.	39	vi
93		viii	Samuel R.	35	A xvi
iron range near Green-water lake.....	81	v	tp., NIP.		
Part owner, Gold Moose g. m... 244		xi	Soil and timber in.....	126	A xv
Roy g. m..... 42, 133		vii	Hannah bay, JAMES BAY.		
Tip-top copper m... 86		ix	Description of, by Low... 130		iv
William			lake, NEAR L. NIPIGON, TH.B.D.		
Notes by, on Producer's Tanking Co.....	166	R C	Diabase on.....	107	A xvi
Gold Reef mine, SAWBILL LAKE, R. R. D.			Hanniford fields, THEDFORD.		
Accident at.....	30	vii	Fossil corals from.....	69	B xiii
Battery statistics.....	21	viii	Hanover, BENTINCK TP., GREY CO.		
Notes on, 1896..... 54, 77		vi	Cement works at, notes.....	31	xii
1897... 29, 64-66, 130, 131		vii	Hanover, GERMANY.		
1898..... 41, 89		viii	Peat in, formation.....	183	i
1899..... 76, 77		ix	moss-litter from.... 212, 213		ii
1900..... 103, 104		x	process for drying.....	194	i
Photo of..... 32, 33		vii	Portland Cement Co.		
mill..... 32, 33		x	Capital and date of charter.....	9	x
Gold Reef Mg. Co.				37	A xiii
See also Hammond Gold Reef mine.			Clay and limestone used by, analysis.....	183	A xiv
Capital and date of charter.....	9	vii	Concrete recommended by, composition of.....	174	A xiv
	10	ix	Notes on..... 17, 31, 35		B xiii
Formation of, notes.....	76	ix	photos..... 142-144		A xiv
Hampton, T. T.	240	i	Operating, 1901.....	32	xi
Hamwell, A. M.	116	ix	1903.....	17	A xiii
	141	x	1905.....	17	A xv
	74	xi	1906.....	20	A xvi
Hancock, John			Hanson, C. L.	61	A xvi
Brick making by, Hamilton. 106, 107		B xv	Consolidated Mg. and Milling Co.		
Hancock, HOUGHTON CO., MICH.			Capital and date of charter.....	28	A xvi
Terrace at.....	175	ix	West End silver mine operated by .8, 61		A xvi
co., OHIO.			Cross Lake silver mine,		
Natural gas in..... 115-117		i	COLEMAN TP., NIP.		
rapid, KWATABOAHEGAN RIVER, ALG.			Notes on, 1905.....	80	A xv
Hand gold mine, L. OF THE WOODS, R. R. D.	64	R C	Hants co., N. S.		
Handlan, —?	157	v	Stibnite found in.....	209	vi
Handy, J. O. See Handy silver claim.			Happe, Ludwig		
silver claim, COLEMAN TP., NIP.			Moss-litter used by, as deodorizer. 191		vi
Calcite from, analysis.....	23	B xiv	Harbours.		
Diabase in..... 29, 50		B xiv	James bay, notes on.... 128, 129, 132		iv
Gabbro from, analysis..... 50, 51		B xiv	Nipigon lake.....	107	A xvi
Producing, 1905.....	7	A xv	location, MICHIPICOTEN ISLAND, ALG.	60	R C
			Harcourt, F. Y.		
			Work by, 1902.....	235	xii
			Prof Robert		
			Analysis by, and notes on, soils of:		
			Abitibi dist.....	243	A xiv
			Mattagami valley. 153, 154		A xv

	Page.	Vol.
Harcourt tp., HALIBURTON CO.		
Apatite in.....	194	ix
Copper prospecting in.....	47	xi
Molybdenite in.....	205	ix
Harden, M. W.	74	A xiii
Hardenburgh, L. M.		
Ref. to work by, on magnetic concentration of iron ore.....	338	xii
Hardinge, H. W.	60	A xiv
	67	A xv
Hardman, —?	147	ix
John E.		
Manhattan gold mine examined by.....	274	viii
	83	x
Mill plans made by, for Crystal G. M. Co.....	269	vi
Notes by, on the milling of gold ores.....	237-243	vi
Hardness.		
Anthraxolite.....	5 Bull.	ii
	160	vi
Scale of.....	448, 535	R C
	201	vi
	214	vii
Various minerals, list.....	201-203	vi
Hard-pan. See Boulder clay.		
Hardware.		
Canadian imports of, 1881-87.....	251, 468	R C
Hardy, A. C.	104	A xv
Hon. Arthur Sturgis		
Letter to, re purchase of diamond drill.....	167-171	iv
Transmittal letter to, 1892.....	1	ii
	1893.....	3 ii
	1894.....	3, 4 iii
	1895.....	2-5 iv
	1896.....	3-6 v
Vice-Pres., Leo Mg. and Dev. Co.....	87	x
tp., P. S. D.		
Copper prospecting in.....	171	ix
and nickel.....	262	viii
Hare, A. A.	58	ix
	79	x
J.	87	ix
R. E.	251	iv
	281	v
	279	vi
Hares.		
Abitibi dist.....	127	A xiii
Hargrave (OR White Silver) silver mine, COLEMAN TP., NIP.		
Notes on.....	83	A xv
Photo of.....	84	A xv
Producing, 1905.....	15	B xiv
	7	A xv
Hargraves, Frederick.	30	A xv
Harkness, A. H.	219	x
Harland, John	97	x
R. H.	264	v
Harlowe, BARRIE TP., FRONTENAC CO.		
Rocks near, notes by Miller.....	202	xi
Harmes Machine Co.	118	ii
Harmony (LATE Chippawa) river, BATCHAWANA BAY, L. SUPERIOR.		
Copper near.....	203	viii
Jasper ore on.....	190, 201	x
	125	B xiii
Notes on, by Charlton.....	201	viii
Coleman.....	128	viii

	Page.	Vol.
Harmotome.		
O'Connor tp. (Beaver mine),... 199	ix	
Harms, —?	86	A xv
Haro (OR HARRI), Joseph	26	viii
Harold lake, SEINE RIVER, R. R. D.		
Description of, by Blue.....	146	v
Gold on, native.....	58	iv
mining.....	4 Bull.	i
	78, 79, 267	vi
notes by Coleman.....	69, 70	v
Granite on, altered.....	87	v
Mill erected on.....	3	iv
gold mine, HAROLD LAKE, R.R.D.		
Notes on, 1895.....	145-148	v
	1896.....	4 Bull. i
	78, 79, 267	vi
Rocks in, granite.....	103	v
	116	vi
in contact with		
Keewatin... 158	vii	
Harper, Dr. W. S.	33	A xvi
Harrer, Hans		
Cobalt works of, Schneeberg.. 75, 76	B xiv	
Harri. See Haro.		
Harricanaw river, JAMES BAY.		
Rocks in.....	142	A xiii
Harrington, Dr. B. J.		
Analysis by, of:—		
anorthosite, Tudor tp.....	198	xi
iron ores, Hastings dist.....	45, 47	ii
limestone, Parry Sd. dist.....	93	B xiii
Notes by, on Dalhousie iron mine.	182	A xvi
Prof. of chemistry, McGill University.....	217	i
Ref. to work by, on rocks from Dungannon tp.....	218	viii
Report by, (synopsis) on iron ores of Canada.....	52-56	ii
Views of, on apatite veins.....	438	R C
tp., ARGENTEUIL CO., QUE.		
Peat in.....	198	ii
Harris, Alexander.	25	viii
Capt.		
Fooled by tin salters.....	139	viii
Edward.	29	v
Fred	28	ix
Henry		
Mica mining by, P. S. d....	279, 280	v
Part owner, Wilcox copper mine.	274	v
J. R.		
Licence to.....	103	viii
Manager, Atikokan iron mine... 61	A xv	
Grace gold mine.....	61	xii
Joe	138	xii
	83	A xiv
John		
Foreman, Copper Cliff mine....	70	vi
	96	vii
Stobie mine.....	272	v
Sydenham mica mine.	192	iii
Manager, La Rose silver mine... 74	A xv	
Joseph.	45	xii
Richard	131	x
Ronald		
See also Harris pyrites mine.		
Bucket-tipping device of....	188, 189	A xvi
Manager, Harris pyrites mine... 88	A xv	
	165	A xvi
William (1903)	8	B xiii
(1850).....	174	ii

	Page.	Vol.		Page.	Vol.
Harris, Mrs. (mythical)	88	vi	Hart, —?		
feldspar mine , BEDFORD TP., FRONTENAC CO.			Gold prospecting by, Minnitaki lake.....	179	vii
Notes on, 1902.....	138	xii	John	81	ii
lake , NEAR MANITOU LAKE, R. R. D.....	87, 88	vi	P. J.	75 A	xiii
=Maxwell gold claims, LAR- DER LAKE, NIP.			Emery Wheel Co.		
Auriferous formation in, width of.	216	A xvi	Tests by, of corundum from Carlow tp.....	63	v
Photo of quartz stringers in dolomite in.....	213	A xvi	238, 239		viii
Shipment from, to School of Mines.	216	A xvi	river , KAWAWIAGAMOG LAKE, TH. B. D.....	9	vi
Gold Mg. Co.			Hartford, Samuel L.		
Capital and date of charter.....	28	A xvi	Lime-burning by, with gas fuel. 126, 127		i
Oil Co.			Gold Mg. and Dev. Co.		
Exhibits of, at Pan-American Exhibition.....	25	A xv	Capital and date of charter.....	10	ix
pneumatic system.			Hartney, James See Farquharson, McLaughlin & Hartney.		
For marl dumping, notes and diagrams.....	132	A xiv	Harty, William	178	iii
pyrites mine , JAMES LAKE, TIMAGAMI DIST., NIP.			Hartz mts. , GERMANY.		
Bucket tip of, diagram and notes. 188-190		A xvi	Peat in, used for metallurgical operations.....	200	ii
Notes on, by Fraleck.....	165	A xvi	jig.		
Overlapping lenses in.....	183	A xvi	Concentration of corundum by, results.....	243	vii
Photos of.....	166	A xvi	Harvard, OTTAWA.		
Shipping, 1906.....	74	A xvi	Brick yards at, notes on.....	60, 61 B	xv
Harrisburg, S. DUMFRIES TP., BRANT CO.			Harvey, Albert		
Brick making at.....	59	B xv	Gold prospecting by ;		
Clay from, for Paris cement works.....	115	B xv	Minnitaki lake.....	179	vii
Harrisburg, U. S.			Wawa lake, near.....	104, 195	vii
Blast furnaces at, reason for loca- tion.....	127	ii	Licence to.....	103	viii
Harrison, Grace	74	xi	116		ix
H. B.			Arthur		
Govt. drill lent to.....	51, 53	xii	Evidence by, before R. C. re:—		
Vice-President, Imperial Cement Co.....	108	ix	coke and charcoal for smelting.	396	R C
17		x	gold ores and mining, L. of the Woods.....	116, 428	R C
John B.			prospectors' interests.....	316	R C
Agreement with, for well sink- ing.....	22, 23	vi	want of railways.....	240	R C
J. E.			Part owner, Sawbill g. m.....	41	viii
Actinolite mining by, Actinolite.	92	iii	E.		
Evidence by, before Roy. Com... extract from.....	82	R C	Limestone quarry of, Rockwood.	126 B	xiii
Owner, Henderson talc mine... Pyrites mining by, Madoc tp....	297	xi	E. E.		
Talc discovered by, near Madoc.	130	x	Gold mining by, Minnitaki lake. 70, 71		viii
W. L.	116	ix	H. A. See Harvey steel process.		
141		x	J.	116	ix
74		xi	141		x
falls , NEAR MANITOU LAKE, R. R. D.			John	57	ix
Waterpower of.....	123	vii	T. R.	103	viii
quarry , ACTINOLITE, HASTINGS CO.			W. A.	132	vii
Limestone from, analysis.....	65, 66	B xiii	Steel Co.		
talc mine , MADOC, HASTINGS CO.			Negotiations of, with British Admiralty.....	142	ii
Notes on, 1903.....	92	A xiii	steel process.		
Harrow tp., ALG.			Adopted by British Admiralty..	154	iii
Rocks in. See Lacloche lake.			Beneficial results of.....	148, 149	iii
Harshaw, Fuller and Goodwin ...	122	ix	Tents on.....	155-158	iii
			tp. , PETERBORO CO.		
			Gold in.....	213	viii
			204		xi
			Limestone in. See Pigeon lake.		
			Lithographic stone in.....	88	xi
			Harwich tp., KENT CO.		
			Artesian well in.....	59	i
			Gas in.....	123-127	i
			29		v

	Page.	Vol.		Page.	Vol.
Harzburgite.			Hattie Bell (or Lafex) copper mine.		
New Caledonia.....	69	B xiv	FOLEY TP., P. S. D.		
Haskins, John C.	202, 427	R C	Notes on, by Coleman.....	261	viii
Hass, Charles	28	ix		167	ix
Hassard, A.	116	ix	<i>See also next ref.</i>		
R.....	141	x	Bell Gold, Copper and Nickel Co.		
Hastings co. AND dist.			Capital and date of charter.....	9	viii
Arsenic ore in, analysis.....	101	xi	Lafex copper mine worked by ..	261	viii
mining.....	36	xii		167	ix
notes by Wells.....	102-105	xi	Work by, 1899.....	100	ix
Brick yards in, notes on.....	69, 70	B xv	Houghton tp., ALG.		
Corundum in.....	207-230	vii	Copper in.....	23	xi
205, 217-222	viii		mining.....	100, 164	xii
map showing	207	vii	Haultain, H. E. T.	97	A xiv
mining.....	82	A xvi		84	A xvi
Danaite in.....	197	ix	Hausmannite.		
Geology of, notes by Miller.....	186-207	xi	Description of.....	216	vi
Gold in, character of formation..	39	iv	Havard, E. T.	140	vii
discovery and early			Havelock, BELMONT TP., PETERBORO'		
mining.....	53-55	iii	CO.		
mining, past and future.	8	v	Kame gravels near.....	232	A xiii
1897.....	89	vii	Limestone near, analysis.....	98	B xiii
1898.....	40, 41	viii	Havre, FRANCE.		
1899.....	91-93	ix	Nickel refining at.....	146	ii
1900.....	114-117	x		175	C xiv
notes by Bell.....	27, 28	R C	Hawk.		
Merritt.....	106	R C	Caribou island, L. Superior.....	111	v
Selwyn.....	5-68	R C	night		
prospecting for.....	234	vii	Abitibi dist.....	126	A xiii
requires			Bay gold mine, SEINE RIVER,		
technical knowledge.	427	R C	R. R. D.		
Iron and iron mining in:—			Granite in.....	116	vi
chromium in.....	233	vii	Notes on, 1896.....	54, 75, 267	vi
Coste's views.....	57	ii	1897.....	66, 67, 132	vii
notes by Blue.....	58-62	ii	Bay Gold Mg. Co.		
Macfarlane.....	39, 40	ii	<i>See also Hawk Bay gold mine.</i>		
Murray.....	36-39	ii	Capital and date of charter.....	9	vii
Pusey.....	111, 112	ii	lake, MICHIPICOTEN DIV.		
Vennor.....	41-51	ii	Granite on.....	204	vii
tests with Wetherill separator.				206	A xv
332, 333	xii		Map of (sketch).....	203	A xv
Limestone in, notes by Miller...	59	B xiii	Nickel prospecting on.....	11	Bull. iii
marble quarrying.....	80-82	R C		206	vii
<i>See also Crookston.</i>			Sand beach on, photo.....	156, 157	vii
Melanterite in.....	194	ii	Terrace on.....	198	A xv
Meteorite that fell in.....	173	C xiv	(KEEK-KEEK) lake, SHEBAN-		
Sillimanite in crystalline schists			DOWAN LAKE DIST.		
of.....	209	ix	Granite on.....	81	v
Sodalite in.....	209	ix	Minor ref. to.....	130	v
Sulphur in galena ores of.....	22	A xvi	Notes on, by Blue.....	128, 129	v
Taconian series in.....	169	i	river, MICHIPICOTEN DIV.		
Talc production in, 1904.....	23	A xiv	Glaciation on.....	206	A xv
Iron Co.			Gold mining on, 1898.....	101	vii
Capital and date of charter.....	9	vii	Rapids on.....	202	A xv
Mining and Reduction Co.			Rocks on, and description...196, 197	vii	
Capital and date of charter.....	9	vii	Hawkesbury, HAWKESBURY (W) 1P.,		
Gatling gold mine worked by... 238	ii		PRESCOTT CO.		
Mill of, photo, plan, description			Axinite at.....	195	ix
and section.....	56-61	iii	Chazy limestone at.....	46	B xiii
Pearce gold mine worked by.... 53	iii		Sulphite pulp plant at.....	199	A xvi
series. See Grenville series.			(East) tp., PRESCOTT CO.		
Silver Lead Mining Co.			Fault in. <i>See St. Anne de Pres-</i>		
Capital and date of charter.....	9	vii	cott.		
Hastingsite.			Limestone in.....	98	B xiii
Dungannon tp., analysis.....	199	ix	quarries.....	99	B xiii
In corundum-bearing rocks.....	211	vii	(West) tp., PRESCOTT CO.		
Hatch, M. P.	61	viii	Limestone in, quarries.....	99	B xiii
Prof.	125	viii	Trenton.....	98	B xiii
			Marl in.....	122	A xiv

	Page.	Vol.		Page.	Vol.
Hawkeye gold mine, MARMORA TP., HASTINGS CO.			Haydenville, HOCKING CO., OHIO.		
Minor ref. to.....	197	xi	Paving clay from, analysis	120	iii
Mispickel in.....	110	R C	Haydon, James S.	178	iii
Hawley, A. W.			Hayes, Dr. A. A.		
Iron bounties paid to, 1902.....	25	xii	Assays by, of ores from :—		
Hawthorn.			Pic river.....	37	R C
Michipicoten div.....	296	A xiv		313	xii
Moose River basin.....	176	A xiii	Silver islet.....	139	vi
Hay, Alexander M.			Tip-top copper mine.....	75	v
Gold prospecting by, L. of the			C. W.	269	A xiv
Woods dist	185	v	Charles		
Manager, Dominion Gold Mg. &			Iron works of, Marmora tp. .254, 321		R C
Red. Works.....37, 54		vii		14-18	ii
Kenora Red. Works..	89	x	E. N.		
Minor ref. to.....	174	v	Operating Gibson mica mine.290, 291		xi
Owner, Rabbit Mt. silver m.....	96	viii	F. B.		
	85	ix	Mica mining by, Calvin tp.....	196	iii
William	50	A xvi	Montrose ..	44, 48	xii
Hay.			Robert		
Abitibi dist.....	244	A xiv	Part owner. Marmora foundry ..	16	ii
Albany river.....	111, 112	iv	Hayner, E.	103	viii
Cloud creek, L. Superior.....	146	ix	Hazel.		
Frederick House River basin....	197	A xiv	Abitibi River dist.....	193	viii
Michipicoten div., lands adapted			Michipicoten div.....	296	A xiv
for.....	13	Bull. iii	Moose River basin	176	A xiii
	206	vii	Wabigoon lake (near).....	171	B vii
Montreal River basin.....	173	vi	Hazelnut.		
Wabigoon lake, near	171	vii	Brulé lake, near Shebandowan		
beaver			lake.....	205	v
Tully tp.....	222	A xiv	H. B. gold loc., 411 KENORA MG.		
creek, MISSINAIBI RIVER,			DIV., R. R. D.....	43	A xvi
ALG.			Head, Edmund	127	vi
Description of Moose river near .	139	ix	Headquarters lake, N. OF LARDER		
island, L OF THE WOODS, R.			LAKE, NIP.		
R. D.			Notes on, and vicinity, by		
See also Hay Island g. m.			Miller.....	221, 222	xi
Carbonaceous shale near.....	104	vi	Headden, W. P.		
Gold on.....	233	ii	Statement by, re columbite in S.		
specimens	64	R C	Dakota.....	236, 237	vii
Indian grave on, photo.....	80, 81	vi	Headlight Gold Mg. Co.		
island, OFF BRUCE CO.	36	B xiii	See Swede Boy gold mine.		
Island (KEEWATIN) gold mine,			Capital and date of charter.....	10	ix
HAY ISLAND, L. OF THE			Heads AND Sills.		
WOODS.			Statistics of. See Building-stone		
Mispickel in ore of.....	116, 117	B C	statistics.		
Notes on, 1897.....	36, 111	vii	Healy falls, TRENT RIVER.		
1898.....	55	viii	Escarpments near.....	97	B xiii
1899.....	42	ix	Fossiliferous limestone near....	88	B xiii
Situation and owners of.....	118	R C	Minor ref. to	21	ii
	233	ii	Hearst tp., NIP.		
pt., ST. JOSEPH ISLAND, L.			Gold locations in, map showing.		
HURON.				202, 203	A xvi
Clinton formation at.....	79	B xiii	Heart lake, DOG RIVER, L. SUPERIOR.		
Haycock, E. B.			Brulé patches on.....	296	A xiv
Acknowledgments to.....	83, 85	vi	Length of.....	285	A xiv
Gold mining by, Manitou lake..	6	Bull. i	Minor ref. to	290, 292	A xiv
	84	vi	Railway near, proposed.....	289	A xiv
Edward			Rocks on and near	348	A xiv
Evidence by, before R. C.....	56	R C	iron-bearing.....	325	A xiv
ref. to.....	149	A xvi	chert.....	314	A xiv
hill, LARDER LAKE, NIP.			lake, NEAR VERMILION LAKE,		
Rocks on.....	207	A xvi	TIMAGAMI DIST., NIP.		
iron mine, HULL TP., QUE.			Jaspilite near.....	170	x
Ore of, notes by Selwyn	68	B C	mt., HEART LAKE, MICHIPICOTEN DIV.		
tp., R. R. D.			Altitude of.....	282	A xiv
Gold mining in.....	57	vii	Minor ref. to.....	160	ix
See also Black Sturgeon mine.			Rocks near.....	325	A xiv
Hayden, MICHIPICOTEN DIV., ALG.			chert.....	314	A xiv
Terrace at	199	A xv			

	Page.	Vol.
Heath, Josiah Marshall		
Invention of, for steel-making.	xxi, 363	R C
Heathcock Mining Co.		
Capital and date of charter.....	29	A xvi
Heather Bell Gold Mining Co.		
Capital and date of charter.....	7	vi
	9	vii
Heating power. See Calorific power.		
Heavy spar. See Barytes.		
Hebe falls, L. OF THE WOODS	169	V
Heck, George C.	162	ix
Mrs. George	162	ix
Hecker, F. J.	198	R C
Heckston, S. GOWER TP., GRENVILLE		
co.		
Calcliferous formation in.....	47	B xiii
Hedden, Russell		
Brick-making by, Crediton	71	B xv
Hedden, W.		
Brickyard of, Crediton	50	B xv
Hedges, Henry S.		
Evidence by, before R. C. re :—		
iron near Wallace mine.....	143	R C
prospectors' rights.....	308	R C
Hedley, Robert		
Evidence by, before R. C. re :—		
developing lands.....	310	R C
Sudbury dist.....	105	R C
gold.....	59	R C
silver.....	203	R C
William H.		
Evidence by, re royalties in		
Great Britain	17	i
Hedlund, Adolphus.	42, 50	x
<i>Hedysarum boreale.</i>		
Mattagami valley.....	150	A xv
Heenan, George		
Gold mine of, L. of the Woods.	117, 118, 446	R C
See also next ref.		
gold mine, BIGSTONE BAY, L.		
OF THE WOODS.		
Idle, 1896	98	vi
Situation of, and owners.....	233	ii
pt., L. OF THE WOODS.		
Gold mining near. See Climax		
mine.		
Minor ref. to	173	v
Heiden, Prof. Edward	143	iii
Height-of-Land (THE MAIN).		
Notes on, by Gibson.....	102	iv
Heinen, A.	199	xii
Helderberg formation, Lower		
Bertie tp.....	46	R C
Detroit river.....	123	xi
Port Colborne.....	129	i
Position of, in Silurian	2	R C
Heldrith, Jeff.	232	ii
Helen bay, MANITOULIN ISLAND, L.		
HURON.		
Niagara formation near	79	B xiii
iron mine, SAYERS AND BOYER		
LAKES, MICHIPICOTEN DIV.		
Accidents at 1900.....	47, 54-57	x
1901.....	54-57	xi
1902.....	47	xii
1903.....	39	A xiii
1905.....	29	A xv
1906.....	32-35	A xvi

	Page.	Vol.
Helen iron mine.—Con.		
Analyses of ore from.....	192, 193	x
	170	xi
	60	A xiv
Boring plant purchased for.....	42	A xiii
Boulder-clay on.....	185	xi
Character of deposit.....	220	A xiii
Closed, 1903.....	7, 58	A xiii
Employees of, character of.....	57	A xiii
Forest fire near, photo.....	64, 65	xi
Hematite in.....	16	A xvi
Importance of.....	27	x
	18, 56	A xvi
Iron discovery near.....	172, 181	A xv
pyrites in.....	38	xii
	20	A xv
	22, 220	A xiii
	22, 185, 201	A xvi
paper by Fraleck,....	165-170	A xvi
geological relationship....	182	A xvi
Notes on, 1899.....	112, 113	ix
1900... ..	126, 127, 137,	
	138, 191-194	x
1901....	67, 70, 71, 167-170	
	263-265	xi
1902	60-64, 102, 103	xii
1903.....	46, 221, 222	A xiii
1904.....	11, 12, 35, 59	A xiv
1905.....	14, 15, 70, 71	A xv
1906.....	72, 73	A xvi
by Coleman.....	221	A xiii
	187-189	A xv
Goodwin.....	91	xi
Ochre, yellow, in.....	169	A xvi
Operating, 1905.....	47	A xv
Ore deposit of, compared with		
those S. of L. Superior.....	197	x
Ore from, for Midland furnace..	30	x
Owner of.....	101	viii
Photos.....	192, 193	x
	128, 129, 160, 161, 176, 177	xi
	80, 81, 97, 98	A xiii
Production, 1901.....	23	xi
1902.....	19, 53	xii
1903.....	9	A xiii
1905.....	188	A xv
Report on and vicinity, by		
Coleman.....	155-160	ix
Rocks of and near.....	194-198	x
chert.....	312	A xiv
iron-formation, character.....	114	A xvi
quartz-porphry, photo ...	160, 161	xi
	175	A xvi
Siderites near.....	308	xii
petrographical notes.....	204	x
Success of, depends on R'y		
communications.....	7	xii
Terraces near.....	196	A xv
Iron formation.		
Description and distribution.		
	155, 159-162	xi
Julia river, section showing		
structure.....	336, 337	A xiv
Notes on, by J. M. Bell.		
	300, 301, 307-317	A xiv
Moore.....	204	A xv
Petrography of.....	182-184	xi
Position of, in Huronian.....	174	A xv
Section of, at Goetz claim.....	182	A xv

	Page.	Vol.		Page.	Vol.
Helena gold and copper mine, BAR- RIE TP., FRONTENAC CO.			Hematite mt., BOYER LAKE, MICH- PICOTEN DIV.		
Minor ref. to.....	37	x	<i>See also</i> Helen iron mine.		
Notes on, 1900.....	117, 118	x	Altitude of.....	153	xi
Ores of ..	203	xi	Boring on, for iron.....	194	x
Rocks near.....	202	xi	Section across top of.....	195	x
Shut down, 1901.....	236	xi	Siderites of.....	204	x
Mining Co.				188 A	xv
Actinolite mining by, 1902.....	26	xii	View from, description of.....	153	xi
lake, NEAR PIPESTONE LAKE, R. R. D.			station, R.R.D.		
Rocks on; quartz veins on.....	61	iv	Gold mining near. <i>See</i> Sunbeam mine.		
Mining Co.			Hemlock.		
Actinolite mining by, 1902.....	26	xii	Loring, near.....	170	ix
Helenaveen, HOLLAND.....	200	xii	McConkey tp.....	171	ix
	34 A	xiii	Timiskaming lake.....	121	iv
Heliophyllum.			lake. See MacKay lake.		
Bertie tp.....	119 B	xiii	Hempton, T. J.....	214	v
Jawbone creek, Abitibi river....	182	viii	Hen and Chickens, The, GEORGIAN BAY, L. HURON.		
Thedford.....	8, 75 B	xv	Limestone on.....	109 B	xiii
" <i>exiguum.</i>			Hendershott, William M.		
Port Colborne, near.....	35	xi	Quarries of, Queenston, notes... 95	i	
Villa Nova.....	143	xii		73 B	xiii
" <i>halli.</i>			Henderson, Archibald		
Abitibi river.....	187	viii	Clement lake discovered by....	124 A	xv
Anderdon tp.....	125	xi	Notes by, on timber of Abitibi dist.....	244, 245 A	xiv
Port Colborne, near.....	35	xi	Report by, on agricultural re- sources of:—		
Heliotrope. See Blood-stone.			Abitibi dist.....	213-247 A	xiv
Helium.			Matagami valley.....	136-155 A	xv
Association of, with fergusonite..	236	vii	Work by, 1904.....	184 A	xiv
Hell Gate, MISSINAIBI RIVER, ALG.			1905.....	116 A	xv
Limestone near, Corniferous....	47	R C	Charles		
fossiliferous....	32 B	xii	Counsel to Ledyard gold mine ..	234	iv
swamp, GLENGARRY CO.			Charles		
Calciferous formation at.....	47 B	xiii	Evidence by, <i>re</i> accident, Ophir mine.....	204	iv
Hell (OR LONG) rapid, MISSINAIBI RIVER, ALG.....	224, 225 A	xiii	Charles		
Hell-diver.			Work by, Vermilion river, 1898.	256	vii
Rossland (Ont) near.....	29	iii	David See Christie, Hender- son & Co.		
bay, L. OF THE WOODS, ONT.			Thomas		
Gold mining on.....	57, 58	ix	Brick-yard of, Renfrew.....	96 B	xv
Rocks on.....	121	vii	clay for, analysis....	15 B	xv
Hellespont. See Dardanelles.			co., TEXAS.		
Helsingland.			Iron ore in.....	101	ii
Nickel discovered in.....	163 C	xiv	lake, VERMILION RIVER, NIP.		
Hematite.			Terraces, rocks and Indians on..	156	x
<i>See also</i> Iron and Iron mining.			steel converter.		
Arnprior.....	137	R C	Paper on, by E. Garlick....	488-491	R C
Composition and description of..	535	R C	talc mine, near MADOC, HAST- INGS CO.		
Connexion of, with limestone... 466		R C	Idle, 1901.....	297	xi
Determination of.....	203, 215	vi	Minor reference to.....	27	xii
Fort Matachewan.....	113 A	xiii	Notes on, 1900.....	130	x
Gros Cap, L. Superior.....	145	viii	1904.....	87 A	xiv
Hardness of.....	202	vi	1905.....	106 A	xv
Hastings co.....	39, 40	ii	Operating, 1903.....	13 A	xiii
Madoc tp.....	288	viii	Hendrickson, George N.....	231	i
Hints on, to prospectors.....	454	R C	Hendry, A.		
Kingston-Pembroke R'y. dist., evidence before R. C.....	131-141	R C	Gold mining by, Seine river....	132	vii
Magnetic permeability of.....	324	xii	J. A.....	102	R C
Mississagi river.....	161	xii	Henesey, Jacob H.		
Occurrences of.....	199	ix	Gold mining by, Regina bay, L. of the Woods.....	182	v
Pyrites underlying, notes by Fraleek.....	182 A	xvi	Part owner, Rajah and Sultana mines.....	231	ii
Specific gravity of.....	202	vi		16, 28	iii
Varieties of.....	535	R C			
notes by Harrington.	55	ii			
brown See Limonite.					

	Page.	Vol.		Page.	Vol.
Henley House, ALBANY RIVER, ALG.			Heron bay, L. SUPERIOR.		
Built, 1744.....	196	v	Agirine on.....	192	ix
Minor ref. to.....	193	v	Analcite on.....	193	ix
Hennebique concrete system.			Gold mining on.....	62, 115, 116	R C
Description and illustration.....	178, 179	A xiv	Heronite on, paper by Coleman.		
Henriksen, G.	306	A xiv		186-191	ix
Henry, Alexander			Rocks on and near.....	135	viii
Mining operations of, L. Superior.			dike rocks.....	172	viii
92, 194.....	194	R C	schists.....	167	viii
111-113, 197, 209.....	209	v	Silver near.....	29	R C
Notes by, on Indian cannibalism.			mine, HERON BAY, L. SUPERIOR.		
138, 139.....	139	v	Character of ore.....	135	viii
Henry, R.	48	A xiii	Mining Co.		
S. Hedges	308	R C	Capital and date of charter.....	9	vii
mts., COLORADO, U. S.			Heronite.		
Laccolites of, ref. to.....	156	vii	Heron bay, L. Superior.....	208	xi
Henson, Dr. Thomas			Paper on, by Coleman.....	186-191	ix
Evidence by, before R. C. re:—			Herrenschmidt process.		
gold, L. of the Woods.....	118	R C	For refining nickel.....	157	ii
iron, Eagle river.....	64, 145	R C	Herreshoff furnace.		
Henwood tp., NIP.			Description of.....	377	R C
Blanche river in, course of.....	36	B xiv	For pyrites ores, notes.....	194	A xvi
Hepworth, AMABEL TP., BRUCE CO.			Herrick, T. W.	138, 241	viii
Brick making in.....	59	B xv	Thomas	195	R C
Clay at, Saugeen.....	19	B xv	Herring.		
Gas at and near:—			James Bay tributaries.....	133	iv
company formed to develop.....	21	x	Herrington, A. J.	51	A xiv
log of wells.....	45	xi	Herschel tp., HASTINGS CO.		
109, 114.....	114	A xv	Biotite in.....	195	ix
Heracleum lanatum.			Corundum area of.....	216	viii
Abitibi Lake dist.....	242	A xiv	Pyroxene in.....	207	ix
Mattagami valley.....	150	A xv	Herson island, L. ST. CLAIR, U. S.	108	v
Hercoceras auriculum.			Hertz, George		
Kwataboahagan river, notes by			Brick making by, Crediton.....	71	B xv
Parks.....	190	A xiii	Hespeler, WATERLOO S. TP., WATERLOO CO.		
diagram... 192, 193.....	193	A xiii	Fossiliferous limestone at.....	115	B xiii
Herculaneum, NEAR NAPLES, ITALY.			Lime kilns at.....	14	A xiii
Mortar used in, character of.....	13	B xiii	Hess, G. H.		
Herkimer co., N. Y.			On acetylene gas.....	29	vi
Niagara formation in.....	44	R C	Hesse.		
Herman, Edward L.	68	A xv	Tax in, on mining allotments....	297	R C
James A.			Hessite.		
See also Herminia copper mine.			Gold creek, Pine Portage bay, L.		
Gold prospecting by, Jaffray tp.			of the Woods, analysis.....	105	v
108, 109.....	109	vi		199	ix
Joseph	83	A xv	Kootenay dist., B. C.....	106	v
Herman, BUTLER CO., PA.			Tellurium in.....	210	ix
Natural gas at.....	148	i	Heterogenite.		
Hermann, A. B.			Cobalt dist.....	100	A xiii
See also Redeemer gold mine.			Hetherington,—?		
Gold mining by, Van Horne tp. 244.....	244	xi	Interested in Marmora iron works		
Hon. Binger			(1830).....	16, 21	ii
Evidence by, re nickel, to Dingley			Heulandite. See Stilbite.		
committee.....	42	vi	Heurvaux, —?	118	xi
M. & Co.	122	xi	Hewlett, Alfred		
Herminia copper mine, SALTER TP., ALG.			Evidence by, re royalties, Gt.		
Average copper contents.....	12	A xv	Britain.....	29	i
Notes on, 1903.....	79	A xiii	Statement by, re Wigan Mining		
1904.....	61, 62	A xiv	School.....	493	R C
1905.....	68	A xv	Hews, R. S.	286	xi
and photos.....	68, 69	A xvi	Heys, Prof. Thomas		
Producing, 1906.....	15	A xvi	Analysis and assays by, of:—		
Sulphide deposits in.....	11	A xiv	brick-clay, Toronto.....	128	iii
Mg. Co.			copper ore, Graham tp.....	105	R C
Capital and date of charter.....	37	A xiii	McConkey tp.....	171	ix
Work by, 1903.....	79	A xiii	iron ore, Galway tp.....	131	R C
			near Blairton.....	130	R C

	Page.	Vol.		Page.	Vol.
Heys, Prof. Thomas—Con.			Hickston corners, GRENVILLE CO.		
Analysis and assays by, of.— <i>Con.</i>			See Heckston.		
quartz, McGown gold m.....	265	v	Hidden, W. E.	212	ix
	88	vii	Treasure gold mine, LOWER		
Wanapitei lake.....	112	R C	SEINE RIVER, R.R.D.		
Gold found by, in quartz from			Notes on, 1900	85	x
Creighton tp.....	92	i	Hides.		
Heywood island, L. HURON. See			Arsenical soap for, composition of.	118	xi
Rat island.			<i>Hieracium canadense.</i>		
HF 1 iron locs., SAND CREEK, L.			Abitibi Lake dist.....	241	A xiv
NIPIGON.			Mattagami valley.....	151	A xv
Jasper in.....	121	A xvi	Higbee, E.		
4 iron loc., SAND CREEK, L.			Gold mining by, Eagle Lake dist.	66	A xiii
NIPIGON.			Newton		
Rocks in.....	122	A xvi	Acknowledgments to.....	66	A xiii
5 iron loc., N. OF SAND CREEK,			Manager, Eagle Lake g. m.....	95	x
L. NIPIGON.			Eldorado g. m.....	93	xii
Notes on, by Coleman..	122	A xvi		49	A xiv
Rocks on, conglomerate.....	112	A xvi	Northern Lights Mg.Co.	65	A xiii
10-13 iron locs., WEST OF WINDI-			Orion g. m.....	62	ix
GOKAN LAKE, TH. B. D.			Pioneer Island g. m... ..	48	A xiv
Notes on, by Moore.....	144	A xvi	Owner, Golden Eagle g. m.....	64	A xiii
10, 15 iron locs., WATSON LAKE,				55	A xv
TH. B. D.			Higgins, A. E.	36	ix
Jasper and hematite in schists			Higgings, —?	61	x
of.....	145, 147	A xvi	High Falls, PORTLAND TP., FRONTENAC		
19 loc., WINDIGOKAN LAKE,			CO.		
TH. B. D.			Boring at, for oil.....	285	v
Rocks on.....	140, 141, 146	A xvi	falls, SPANISH RIVER.		
20, 31 iron locs., NEAR L. WINDI-			Water power at, notes.....	71	A xiv
GOKAN, TH. B. D.			plant....	13, 62, 63	A xv
Rocks of.....	142	A xvi	falls, MADAWASKA RIVER.		
21 iron loc., WINDIGOKAN LAKE,			Diopside at.....	197	ix
TH. B. D.			Pargasite at.....	206	ix
Arkose rocks in.....	146	A xvi	Tourmaline near.....	211	ix
23, 26 iron locs., NEAR TALLOW			falls, MICHIPICOTEN RIVER.		
LAKE, TH. B. D.			Description of.....	192	vii
Rocks in.....	141	A xvi	Fall of.....	176	A xv
27 iron loc., WINDIGOKAN LAKE			Iron formation near.....	181, 204	A xv
DIST., TH. B. D.			Photo of.....	140, 141	vii
Conglomerate in, description..	147	A xvi	Stratified deposits near.....	198	A xv
32, 35, 39 iron locs., N.E. OF			Water power plant on.....	13, 201	A xv
WATSON LAKE, TH. B. D.				68	A xvi
Notes on, by Moore.....	145	A xvi	photo.....	168	A xvi
Hiawatha Gold Mining and Milling			falls, NATION RIVER.		
Co.			Trenton limestone at.....	108	B xiii
Capital and date of charter.....	9	vii	falls, ONAPING RIVER.		
Hibbard, H. N.	135	i	Tuff at.....	131	C xiv
Hibbert tp., PERTH CO.			falls, YORK BRANCH RIVER.		
Boring in, for salt. See Dublin.			Photos of.....	232, 233	viii
Hibernia iron mine, NEW JERSEY,			Waterpower at.....	215	viii
U.S.			Falls pyrites mine, ST. LAW-		
Ball-Norton separator used in... ..	328	xii	RENCE CO., N. Y.		
Concentrating process at, descrip-			Plant at, notes on.....	191	A xvi
tion	326	xii	Rock apatite m., W. PORT-		
Minor ref. to	240	xii	LAND TP., OTTAWA CO., QUE.		
Hickey Oil Co.			Pockets in, showing banded		
Capital and date of charter.....	26	A xv	structure.....	441	R C
Wells of, at Leamington.....	116	A xiv	Highgate, ORFORD TP., KENT CO.		
Hickory.			Brick-yard at, notes and photos.	73	B xv
Heating power of.....	54	B xv	Highland co., U. S.		
Hicks, Joseph			Cincinnati group in.....	116	i
Captain, Ely mine.....	71	xi	creek, SCARBOROUGH TP., YORK		
Mikado mine.....	52	ix	CO.		
	77	x	Iroquois beach in.....	230	A xiii
Manager, Triumph mine.....	55	viii	creek, HIGHLAND LAKE, REN-		
William			FREW CO.		
Gold mining by, Sherbrooke tp..	112	R C	Syenite on.....	224	viii
Iron mining by, Bagot tp.,.....	275	v			
Shareholder in Calabogie Co.....	136	R C			

	Page.	Vol.		Page.	Vol.
Highland gold mine, Moss tp., Th.B.D.			Hilton, St. Joseph Island, L. Huron.		
Minor refs. to	25, 62	R C	Terraces near.....	199	A xv
Notes on, by Plumber.....	78	v	Hinchinbrooke tp., Frontenac co.		
ref. to.....	79	v	Apatite in.....	194	ix
Ore of, character.....	124	v	See also Blessington mines.		
lake, Sebastopol tp., Renfrew co.			Corundum-bearing rocks in.....	228	viii
Rocks on.....	224	viii	Iron ore in. See Eagle lake.		
Mining Co.			Limestone in.....	46	ii
Capital and date of charter.....	9	vii	Marcasite in.....	203	ix
Highwood mt., Montana, U. S.			Mica mining in. See Godfrey mica mine.		
Nepheline-syenite from.....	209	xi	Hincks tp., Ottawa co., Que.		
Hildreth, James	53	iv	Apatite deposits in.....	436	R C
	56	viii	Hind, Prof. Henry Youle		
Hiles, M. M.	162	A xiv	Description by, of storm on Lac des Mille Lacs.....	119	v
Hill, Arthur	82	xii	Distances given by, Shebandowan Lake dist.....	136	v
	59	A xv	Extract from "Narrative of Red River Expedition" by.....	168	v
J.			Notes by, on forest fires W. of Port Arthur.....	205	v
Brick-yard of, Madoc.....	69	B xv	Sketch by, of Fort Frances, 1857. 80, 81		v
Bros.			H. B. C. fort, Kenora. 128, 129		v
Brick-yard of, Essex Centre... 63, 64		B xv	Hinde Bros.		
Hille, August	30	vii	Brick-making by, Carlton West. 107		B xv
F.			H'nterland of Ontario.		
Assays by, of:—			Report, by Gibson, on surveys in.	101-138	iv
copper ore, Tip Top m.....	75	v	ref. to.....	5	iv
iron ore, Greenwater lake....	81	v	Hinton, W. P.	106	B xiii
nickel ore, L. of the Woods... 249		ii	Hiram (BIBLICAL).		
quartz, Rajah g. m.....	28	iii	Brass casting by.....	381	R C
quartz-porphry, Round lake. 75		v	Walker	45	xii
Iron prospecting by, Port Arthur dist.....	20	xii	Hirshfield, Julius	87	x
Report by, on Minto g.m., ref. to. 72		A xiii	Hiscock, R. C.	197	vi
Statement by, re:—			Hisingerite.		
silver W. of Port Arthur, 1893. 181		iii	Elizabethtown tp.....	199	ix
gold near Lee Blain, 1894... 231		iv	Hissarlik hill, near THE DARDANELES.		
Siderite reported by, W. of Port Arthur.....	142	xi	Ancient site of Troy.....	167	i
Views of, re Animikie of Th.B.D. 148		ix	Hist, F. and William		
Hillebrand, W. F.			Brick-making by, Crediton.....	71	B xv
Analysis by, of analcite-basalt... 173		viii	Hitch, J.		
Sudbury ores.... 158		C xiv	Brick-yard at, notes.....	73	B xv
Hilliard, F.			Hixon, A. B.		
Brick-yard of, Renfrew.....	97	B xv	Mine captain, North Star mine.. 86		xii
Hillier farm, East of Sarnia.			Victoria mine.... 124		x
Oil pumping systems on.....	107	ix		65	xi
tp., Prince Edward co.				86	xii
Beach in. See Wellington.			W. H.		
Boring in, for gas.....	152	R C	Acknowledgments to.....	58	xii
Hills, E., Sons & Co.	122	xi	Manager, Victoria mines.....	124	x
Hilly lake, L. of the Woods, R.R.D.	34	vii		65	xi
Hillyer, George H.				58, 287	xii
Part owner, Lucky Coon g.m. 65, 156		v		72	A xiv
President, American and Canadian G. M. Co.....	129	vii		17, 142	C xiv
	81	viii		65	A xv
Vice President, Lucky Coon G.M. Co.....	70	ix	Hjuljern, Sweden.		
J. S.			Wenstrom separator used at.... 328		xii
Manager, Alice A. g. m.....	129	vii	Hoath, James	200, 201	iv
	46	viii	Hobbs, Prof. William Herbert	119, 120	ix
President, Lucky Coon G. M. Co. 70		ix	Hobson, A. B.	103	vii
Vice President American and Canadian G. M. Co.....	81	viii		103	viii
gold mine, L. of the Woods.			Robert	46	v
See Lucky Coon gold mine.				15	ix
Hilprecht, Prof. von Hermann 166		i	W. C.	103	vii
Hilsen.			Hocking co., Ohio.		
Pyrrhotite from, analysis.....	163	ii	Coal of.....	201	i
			calorific power.....	207	ii

	Page.	Vol.		Page.	Vol.
Hockley, Frank	50	vii	Hogan, T.		
42, 85, 86		ix	Iron prospecting by, E. of Port Arthur.....	156 A	xv
Hodge, —?			Thomas H.		
Work by, for Montreal Mg. Co..	65	iii	Gold mining by, The New Klondike.....	72-75	viii
Hodges, James			63, 64		ix
Peat process of, analysis of fuel produced by.....	201	ii	Iron mining by, Atikokan range.	266	xi
notes.. 198, 199, 203-205		i	Hogboem, —?	190	ix
197, 206		ii	Hogg, J.	104	vii
201		xii	John S.		
Peat suggested by, for iron smelting.....	209	i	Peat making by	23	ix
Hodgins, James A.	38, 41	A xiii	Hogsback, RIDEAU RIVER.		
King	111	ix	Brick-yard at. <i>See</i> Harvard.		
tp., ALG.			Limestone quarries near, character of stone	37 B	xiii
Country north of, character.	197, 198	viii	Hogue, Samuel	45, 50	x
Iron ore in, character.....	315	xii	Holbrook, H. B. ; L. J. ; L. V.	103	vii
mining. <i>See</i> Williams mine.			115, 116		ix
Hodgson, —?			142		x
Peat drying process of.....	193	i	74		xi
R. T.			66		xii
Manager, Canada Corundum Co.	20	ix	Holden, Cyrus	55	xii
Work by, 1897.....	208, 235	vii	L. C.	95	ix
1898.....	205, 214	viii	Holding, Robert	104, 195	vii
W. F.	104	vii	116		ix
Hoepfner, Dr. Carl			Hole-in-the-Wall, a defile in TUDOR TP., HASTINGS CO.		
Nickel refining process of... 221, 222		ix	Rocks of.....	198	xi
<i>See also</i> next refs.			Holgate, W. A.	142	x
(OR FRASCH) smelter, HAMILTON.			Holland, Charles	54 A	xiii
Secured for Cobalt ores.....	73 B	xiv	Norman B.		
Refining Co.			Mica trimming works of, Ottawa.	105 A	xv
Attempt by, to smelt Sudbury ores.	144 C	xiv	91 A		xvi
Hoerde iron process.	92, 93	ii	T. H.		
Hoffmann, G. C.			Extracts from report by, on corundum in India	229-234	viii
Analysis and assays by, of:—			Ref. to paper by, on mica deposits in India	91 A	xiii
anthraxolite, Petitsikapau lake, Lab.....	2 Bull.	ii	W. H.	124	x
162		vi	and Emery Lumber Co.	137	vii
breccia, Onaping river.....	86	i	and Holland	387	R C
coal, Missinaibi river.....	125	iv	Holland.		
iron ore, Atikokan range... 75		ii	Peat in, use of.....	193	xii
Mattagami river... 77		ii	industry in, notes	215-217	ii
126		iv	moss-litter from, price	197	ii
limestone, Lanark tp.....	71 B	xiii	Centre, HOLLAND TP., GREY CO.		
nickel ores, Sudbury dist... 90		i	Marl near. <i>See</i> Williams lake.		
quartz, L. of Woods reg.. 25, 115		R C	Landing, GWILLIMBURY E. TP., YORK CO.		
Ledyard g. m. 52		i	Artesian water in	59	i
Wanapitei lake..... 27		R C	river, SIMCOE LAKE.		
92		i	Peat bog on, notes on	190	i
tuff, near Whitson lake..... 132		C xiv	tp., GREY CO.		
zinc-blende, Whitesand river. 31		R C	Clinton formation in	48 B	xiii
Description by, of:—			Marl in.....	146 A	xiv
limestone, Anderdon tp.... 126		xi	<i>See also</i> William lake.		
souesite, Lillooet, B.C. 151		C xiv	Hollandia lead mine, NEAR BANNOCK-BURN, HASTINGS CO.		
Examination by, of kaolin, Missinaibi river.....	127	iv	Notes on, 1898	32	viii
Hoffman, W. H.			1903	94 A	xiii
Notes by, on treatment of iron ore, Croton mine.....	339	xii	1904	79 A	xiv
Ref. to paper by, on iron mines of N. Y.....	237	i	1905.....	40, 91 A	xv
Hog bay, GEORGIAN BAY, L. HURON.			1906	78 A	xvi
Drift west of.....	109 B	xiii	Output of, 1904	15 A	xiv
Hog (MOIRA) lake, HUNGERFORD TP.			Re-opened, 1903.....	11 A	xiii
Marble on	63 B	xiii	Rocks in.....	199	xi
Rocks on	59 B	xiii			
Hogan, S. D.	48 A	xiii			

	Page.	Vol.		Page.	Vol.
Hollands, Charles J.			Homestake Gold Mfg. Co. (of Ont.)		
Notes by, on :—			Capital and date of charter.....	11	xi
Foley gold mine.....	159	v	Gold prospecting by, L. of the		
L. of the Woods gold loca-			Woods.....	235	ii
tions.....	260, 263	vi	<i>See also</i> Homestake gold mine.		
timber at Fort Frances....	161	v	mine , BLACK HILLS, U.S.		
Holliday, W.	116	ix	Veins of, compared to veins in		
Hollidayburg, PENN.	236	i	Fairbank tp.	225	i
Hollingshead, Henry & Son.			Mining Co.		
Oil working by, Dunwich tp....	16	viii	Capital and date of charter.....	9	vii
Hollman, —?			Homewood sandstone.		
Moss litter first made by.....	187	vi	Natural gas found in.....	151	R C
Peat process of, description....	214	ii	Hominee.		
Hollow lake, S. MUSKOKA RIVER.			Definition and preparation of....	199	v
Allanite on.....	193	ii	Honduras.		
193	ix		Nickel coinage in.....	161	ii
=sand lake, FREDERICK HOUSE			Honeychurch, Charles	32, 33	vii
RIVER.			Honeysuckle.		
<i>See</i> Frederick House lake.			Abitibi dist.....	241 A	xiv
=sand river, NIGHT-HAWK LAKE,			Mattagami valley.....	150 A	xv
NIP.	181	vi	Honor Bright Gold Mining Co.		
=ware.			Capital and date of charter.....	11	xi
Canadian imports of, 1881-87....	251	R C	Hood, —?	140	iv
Holly pump system.	56	i	Hook, Harry	91	xii
Holmes, —?			Hooker, D. D.		
Gold developing by, near Dry-			Brick-yard of, Welland, notes		
den.....	55 A	xv	on.....	104 B	xv
59 A	xvi		Hoolihan, J. E.		
John			Manager, Zenith zinc mine.....	86	ix
Oil on farm of, Raleigh tp.....	97 A	xvi	Hooper, Thomas		
J. A.			Evidence by, before R. C. <i>re</i> :—		
Ref. to surveys by, Batchawana			Beaver silver mine.....	198, 199	R C
bay and northwards.....	162, 163	ix	iron ores, Port Arthur dist....	144	R C
189, 190	x		Michigan School of Mines....	426	R C
M. M.			need of railways.....	240	R C
Part owner, Bad gold mine.....	30	iii	tariffs.....	232	R C
William			Manager, Beaver silver mine....	193	R C
Land owner of present site of			225	i	
Paris, Ont.....	114	i	114	ii	
dock, RAINY RIVER, R.R.D.			Minor ref. to.....	200	R C
Indian relics from.....	165	v	Hoover and Jackson.		
Holopea.			Limestone quarrying by, Orange-		
Abitibi river.....	187	viii	ville.....	99	i
Kwataboahegan river, notes by			Hope, George		
Parks.....	187 A	xiii	Evidence by, before R. C. <i>re</i> :—		
photo of sections			cost of English iron.....	400	R C
of facing.....	192	xiii	tariffs.....	234	R C
Holton, R.			James E.	174	v
Brick-yard of, Drew.....	105 B	xv	lake , WEST OF RAINY LAKE,		
producing, 1902.....	29	xii	R. R. D.	60	iv
Holum, M. H.	104	viii	tp., DURHAM CO.		
Holyoke, HAMPDEN CO., MASS.			Beaches in. <i>See</i> Port Hope.		
Water-power at.....	485	R C	Hopkins, Albert J.	43	vi
Home Gold and Copper Co.			Anna J.		
Capital and date of charter.....	9	xii	Gold mining by, Michipicoten div.		
Homer, GRANTHAM TP., LINCOLN CO.			101, 104	viii	
Iroquois beach at.....	227 A	xiii	116	ix	
tp., TH. B. D.			Charles	200	R C
Iron ore north of.....	314	xii	H. J.		
Tin "salting" in.....	138, 139	viii	Mining by, Michipicoten div....	104	vii
Homestake gold mine, YELLOW-			101, 104	viii	
GIRL BAY, L. OF THE WOODS,			116	ix	
R.R. D.			Samuel		
Acquired by Dominion Gold Mfg.			Boring by, for oil, Port Colborne.	129	i
and Red. Co.....	174	v	W. G.	66	xii
Notes on, 1892.....	232	ii	Hopkinson, Dr. John		
			Ref. to work by, on nickel alloys.	115	viii
			Hoppins, Aaron		
			Feldspar mining by, Bedford tp.	26	x

	Page.	Vol.		Page.	Vol.
Horbachite.			Hornstone (CHERT).—Con.		
Composition of.....	170	ii	Michipicoten div., notes by J. M. Bell.....	308-310 A	xiv
Horden mt., N. OF KAPISKASING LAKE, ALG.			Mode of occurrence.....	196	ix
Minor ref. to.....	137	ix	Horovsky, E.	104	vii
Photo of.....	224, 225	ix	Horse (s).		
Horetzky, Charles G.			Bedding for. <i>See</i> Moss litter.		
Statement by, <i>re</i> spruce on Moose river.....	120	iv	Moose factory.....	107	iv
Horn quarry, NEAR RIDGEWAY, BERTIE TP., WELLAND CO.			Horse-shoe(s).		
Notes on.....	118, 119 B	xiii	Canadian imports of, 1881-87....	251	R C
silver. See Cerargyrite.			limestone quarry, St. MARYS.		
Hornblende.			Fossils from.....	151	xii
Analysis of, S. Sherbrooke tp. . .	227	viii	Notes on.....	96, 97 B	xiii
Ancient napkins made of....	95, 96	iii	Photo of.....	96, 97, 126, 127 B	xiii
Association of, with apatite. 438, 442		R C	Quarry Co.		
Oso tp.	439	R C	Capital and date of charter.....	37 A	xiii
N. Burgess tp.	440	R C	Horserace rapid, MADAWASKA RIVER.		
Storrington tp.	441	R C	Corundum near.	223	viii
Description of.....	133	iii	Horseweed.		
Determination of.....	535	R C	Night-hawk lake.....	123 A	xiii
Occurrences of crystals of.....	205	vi	Horton, James A.		
Robert bay, Muskoka dist.	199	ix	Analysis by, of granite, Sudbury dist.	120 c	xiv
granite.	81 B	xiii	norite, Sudbury dist.	124 c	xiv
Wabigoon Lake dist.	183	vii	tp., RENFREW CO.		
porphyrite.			Marble quarries in. <i>See</i> Renfrew.		
Astron bay, L. of the Woods, petrography.....	46	vii	Horwich, LANCASTER, ENG.		
schist.			Peat at.....	196	i
French River dist.	57, 68	i	Charcoal from.....	208	i
Lake of Bays, sketch showing contact with gneiss.....	167	vii	Hospital.		
Wabigoon Lake dist., character. 182		vii	Copper Cliff, photo.....	87 c	xiv
Wanapitei lake, gold-bearing... 191		ii	Hotspur, MONMOUTH TP., HALIBURTON CO.		
Gold Mg. and Exploration Co.			Nepheline-syenite near.....	215	viii
Capital and date of charter.....	10	ix	Hough, J. A.	36 A	xvi
Licence to.....	116	ix	Houghton, Dr. Douglas	93, 255	R C
Work by, 1899.....	112, 114	ix	Jacob	178	ii
Horne, J. T.			Houghton, MICHIGAN, U.S.		
Iron mining by, Rainy lake....	266	xi	Beaches near.....	175	ix
Manager, Empress gold m.	266	v	Copper of, quality.....	375	R C
Mogotherium g. m.	135	vii	Glacial striae at, direction.....	178	ix
Man. Dir., Empress Gold Mg. Co. 56, 111, 263		vi	School of mines at.....	426	R C
Part owner, Norway g. m.	31	iii	contemplated.....	512	R C
Section given by, of tunnel near Sabawelake.....	131	xi	notes.....	212, 213	i
Hornellsville, STEUBEN CO., N. Y.			by Merritt... 507, 508		R C
Paving clay from, analysis.....	120	iii	visited by Coleman, 1899. 144		ix
Hornick Farm Oil Co.			Hoverstate and Chase.		
Oil production of.....	100 A	xvi	Oil working in Romney tp.	100 A	xvi
Horning and Brownscombe.			Howard, —?	240	ii
Pottery makers, Owen Sound... 118 B		xv	tp., KENT CO.		
Hornstone (CHERT).			Gas in.....	123, 125	i
Annaberg, Saxony.....	61 B	xiv		29	v
Corniferous formation... ..	46	R C	Howe, Henry Marion		
Definition of.....	530	R C	Views of, on titanic iron ores....	88	ii
	224	vi	John	28	ix
	166	x	R.	41 A	xv
Description of.....	535	R C	Brown & Co.		
	224	vi	Labour employed by, statistics..	370	R C
L. Huron, N. of (pebbles), notes by Coleman.....	162	viii	Steel output of, 1893.....	119	ii
Loon Lake dist., Th. B. d.	258-260 A	xiv	island, FRONTENAC CO.		
Marquette region, U. S., ferruginous.....	185	ix	Cambro-Silurian on.....	43 B	xiii
			Clay on, stratified; rocks on....	242 A	xiii
			island, OFF MANITOULIN ISLAND.		
			Clinton formation on.....	78 B	xiii
			Howenstein, J.	105	x
			Howey, Dr. W. H.		
			Nickel found by, Sudbury dist..	134 c	xiv

	Page.	Vol.		Page.	Vol.
Howick tp., HURON CO.			Huckleberry hills, MADOC TP., HASTINGS CO.		
Boring in, for salt. <i>See</i> Wroxeter.			Rocks of.....	194	xi
Limestone in	35 B	xiii	granite	198	xi
Corniferous	66 B	xiii	Hudson, A.	104	vii
Howland, C. H.	104	vii	"Hudson" s.s.....	61, 63	xi
Henry S.				37 A	xiv
Evidence by, before R.C. <i>re</i> :—				37 A	xv
charcoal iron	396	R C	Hudson bay.		
iron, Snowden tp.....	234	R C	Fisheries and furs of.....	133	iv
railway subsidies.....	242	R C	Glaciation W. of.....	90	v
Owner of Howland iron mine ...	61	ii	Jasper ores on and near.....	93	v
O. A.	225	i		200	x
iron mine, SNOWDON TP., HALIBURTON CO.			Minerals south of, paper by Gib-		
Evidence <i>re</i> , before R.C.	61	ii	son.....	124-128	iv
Cost of working	388, 389	R C	Navigation of, notes.....	131, 132	iv
Cross-section of	131	R C	Rocks of, Archæan.....	193	v
Notes on, by C. S. Pusey.....	131	R C	Paleozoic	7	R C
Ore of, analysis	62	ii		246	v
value.....	335	R C	Huronian.....	17	R C
tp., MANITOULIN ISLAND.			Water of, temperature.....	107	iv
Boring in, for iron	43, 45 A	xiii	Hudson Bay Extended, Ltd.		
Howrigan, John	72 A	xiii	Capital and date of charter.....	28 A	xvi
Howse iron mine, BEDFORD TP., FRONTENAC CO.			Hudson Bay slope.		
Early mining at.....	43, 44	ij	Iron ores on, probability of... 77, 78		ii
Notes on, by Vennor.. ..	49	- ij	Notes on, by Burwash.....	176-181	vi
Hoyle tp., ALG.			Cobalt Mg. Co.		
Minor ref. to.....	221 A	xiv	Capital and date of charter.....	29 A	xvi
Soil from, description.....	134 A	xiii	Oil Producers, Ltd.		
Trees in.....	123 A	xiii	Capital and date of charter.....	28 A	xvi
Hoyt, J. H.	142	x	river, N. Y.		
	74	xi	Glaciation on and near.....	32 B	xv
HP 259, 304, 305, 384 gold locs.			Iroquois beach.....	233 A	xiii
<i>See</i> Swede Boys mine.			Hudson River formation named		
267 gold loc. <i>See</i> Quackenbush, V.			after.....	43	R C
301 gold loc. <i>See</i> Jubilee gold mine.			Iron mining on.....	107	ii
366-369 gold locs. <i>See</i> Big Master gold mine.			Hudson River formation. <i>See</i> Lorraine formation.		
370-389 gold locs. <i>See</i> Kishkutena gold mine.			straits.		
405 gold loc. <i>See</i> Gold Rock gold mine.			Navigation of, notes.....	131, 132	iv
467 gold loc., NEAR JACKFISH LAKE, TH. B. D			tp., NIP.		
Notes on.....	87	x	Conglomerate in.....	46 B	xiv
498 gold loc., RESERVE ISLAND, SEINE RIVER.	75	vi	Iron in.....	30 B	xiv
676-679 gold locs. <i>See</i> Jack Lake gold mine.			Malachite in.....	54 A	xvi
Hub gold mine, NEAR WANAPITEI LAKE, NIP.	140	vii	Minerals in.....	44 A	xv
Gold Mining and Development Co.			Niccolite and smaltite in.....	51 B	xiv
Capital and date of charter.....	9	vii	Hudson's Bay Co.		
Hubbell, A. C.			Dead river, Michipicoten river,		
Gold mining by, Rathbun tp....	87	vii	formed by.....	177 A	xv
President, Golden Star Mg. & Ex. Co.....	45, 76	viii	Fishing industry of.....	133	iv
Huber, Allen			Government by.....	134, 135	iv
Experiments by, on peat for fuel.	190	i	Historical notes.....	196	v
Huckleberries.			Influence of, on Indians.....	134	iv
Abitibi dist.....	253 A	xiv	Iron prospecting by, Nipigon lake.	214	x
Wabigoon Lake dist.....	176	vii	Policy of, against settlers.....	204	v
			Posts of :—		
			Abitibi lake.....	227	xi
			Agawa river, L. Superior.....	131	viii
			Bear island, Timagami lake... 161		R C
				161	x
			Charlton island.....	178 A	xiii
			Fort Frances, nomenclature... 40		iv
			Matachewan.....	110 A	xiii
				240 A	xiv
			photo of factor and family.....	184, 185	viii

	Page.	Vol.		Page.	Vol.
Hudson's Bay Co.—Con.			Hull landing, STONY LAKE, PETER- BOROUGH CO.		
Posts of.— <i>Con.</i>			Mica-granite at.....	213	viii
Fort Mattagami.....	127	ix	tp., OTTAWA CO., QUE.		
	121	A xiii	Iron in, compared with that of		
	240	A xiv	Hastings co.....	51	ii
	116	A xv	mining.....	32, 34	ii
chalcopryrite near.....	196	ix	with crystalline limestone.....	53	ii
Ground-hog lake.....	115	iv	Humber bay, TORONTO.		
	131	x	Brick-making at, notes.....	110	B xv
Kapiskasing lake, Alg.....	137	x	Humber river, YORK CO.		
Lac Seul.....	92, 93	v	Fire-clay on.....	54	R C
gold reported at.....	47, 61	v	Hudson River shale on.....	177	i
jasper pebbles at.....	74	v		127	iii
latitude.....	62	v		126	B xiii
Lake of the Woods.....	92	vi	Iroquois beach on.....	229	A xiii
Kenora, notes.....	168-171	v	Medina shale on, for vitrified		
photo.....	128, 129	v	brick.....	16	v
Long Point island.....	185	v	Sand and clay on.....	230	A xiii
Little Wabigoon lake.....	54	v	Humberstone, HUMBERSTONE TP., WELLAND CO.		
Michipicoten.....	13 Bull. iii		Gas in and near.....	130, 131	i
	241	v	See also Humberstone tp.		
100, 101, 185, 201, 202, 206	vi		supplied to.....	44	xi
abandoned.....	298	A xiv		91	A xiv
Missinaibi.....	185	vii	Limestone from, analysis.....	152	xii
Montizambert.....	242	v	tp., WELLAND CO.		
Moose factory.....	178	A xiii	Gas in.....	102	A xiv
notes by Parks.	191, 192	viii		108	A xv
photo.....	200, 201	viii	boring for.....	52, 53	xii
New Brunswick House.....	139	x		27, 28	A xv
New Green lake, Alg.....	157, 167	xii	notes on.....	128-131	i
New Post, Abitibi river.....	186	viii	See also Port Colborne.		
photo.....	200, 201	viii	Limestone in, Corniferous.....	34	xi
Pic river.....	13 Bull. iii		See also Sherkston.		
Pishkanogami lake.....	134	ix	kilns and quarries. See		
Pither pt., Rainy lake.....	162	v	Port Colborne.		
Poplar Lodge, Nipigon lake...	212	x	Onondaga formation in.....	117	B xiii
abandoned.....	106	A xvi	Peat in.....	191	i
Post lake, Vermilion river....	258	vii		33	iv
Sandy lake, R. R. d.....	170	vii	See also Welland.		
Savant lake, abandoned. 89, 90,	313	xii	Humboldt, Alexander von		
Ship Hole, James bay.....	129	iv	Notes by, on political economy..	9	iv
Sturgeon river, L. Nipigon.			School of Mines established by..	498	R C
	107, 110,	118	Humboldtine. (IRON OXALATE).		
lake, Th. B. and R.			Kettle pt.....	194	ii
R. d.....	165, 176, 177	vii		108	ix
	139, 149	xi	Humphrey, S. E.	132	i
Timiskaming lake.....	41	B xiv	Humphreys, A. E.	43	iii
Wanapitei lake.....	168	vi	Robert.....	61	viii
photo.....	176, 177	vi	Hungary.		
Hueiva prov., SPAIN.			Gasifying of wood in, for iron		
Pyrites deposits in.....	192	A xvi	smelting.....	484	R C
Hugesson, C. M. Knatchbull	9	vi	Peat drying process in.....	194	i
Hughes Bros.			Hungerford, W. A.		
Iron mining by, near Wallace			Director, Atlas Arsenic Co.....	91	ix
mine.....	142	R C		62, 167, 234	xi
and Bangs.....	28	xii		110	xii
Hugo Von Hagen Co.			Manager, Craig gold mine.....	93	A xiii
Capital and objects of.....	43	A xvi		76	A xiv
Hulbert, J. H.				40, 42	A xv
Analysis by, of iron ore, Palmer-			Oliver pyrites m....	80, 159	A xvi
ston tp.....	81	ii	Marble Co.		
Hull, OTTAWA CO., QUE.			Capital of.....	235	R C
Cement plant at, limestone for..	37	B xiii	Notes on, by the Manager. 80-82,	235	R C
See also International Portland				62-64	B xiii
Cement Co.			Mills, HUNGERFORD TP., HAST- INGS CO.		
Smelter at, notes by F. Miller...	396	R C	Trenton formation near.....	59	B xiii
Hull, YORKSHIRE, ENGLAND.					
Apatite shipments to, 1884-85...	443	R C			

	Page.	Vol.
Hungerford pyrites mine, HUNGERFORD TP., HASTINGS CO.		
Depth at which pyrites was met.	186	A xvi
Notes on, 1905	94	A xv
1906 and photos of plant.	79, 80,	197 A xvi
Ore at, broken by hand.....	191	A xvi
Originally worked for gold.....	185	A xvi
Work suspended.	201	A xvi
Worked as a pyrites mine.....	157	A xvi
tp., HASTINGS CO.		
Actinolite in.....	52	R C
	91	iii
	102	ix
	27	xi
Copper pyrites in.....	133	R C
Gold in.....	54	iii
Iron pyrites in.....	133	R C
	207	ix
mining	19	A xiv
	20	A xv
	79, 150, 157-159	A xvi
See also Hungerford m.		
Oliver m.		
Mica in.....	203	ix
mining	149	R C
Marl in. See Dry lake.		
Quarries in, limestone.....	61	B xiii
marble, exhibited at		
Pan-American Ex-		
hibition.....	87	xi
See also Crookston.		
Rocks in, garnetiferous schist...	160	A xvi
Trenton.....	59	B xiii
Western Extension Pyrites		
mine, HUNGERFORD TP.,		
HASTINGS CO.		
Notes on, by Fraleck.....	159, 160	A xvi
Hungry bay, L. St. FRANCIS, QUE.		
Calciferous formation on.....	47	B xiii
Hunsiker, Millard	22	xi
Hunt, H. B.	44, 68	viii
J.	104	viii
	116	ix
	142	x
	74	xi
	66	xii
	48	A xiii
Dr. T. Sterry		
Analyses and assays by, of:—		
anorthosite, Ottawa.....	226	viii
dolomite, Panache lake.....	83	i
iron ores, Bastard tp.....	35	ii
Gros cap	145	viii
Hastings dist.....	44, 54	ii
Hull, Que.....	35	ii
Little Pic river.....	37	R C
Pic river.....	313	xii
Wallace mine.....	63	ii
limestone, Panache lake....	29, 30	B xiii
nickel ore, Sudbury dist.....	88	i
	3	C xiv
peristerite, Bathurst tp.....	206	ix
Anorthosite near Ottawa describ-		
ed by.....	226	viii
Apatites described by, 1848	436	R C
found by, in Silurian...	194	ix
Asbestos defined by.....	93	iii
Cobalt found by, L. Huron.....	7	A xvi

Hunt, Dr. T. Sterry—Con.

	Page.	Vol.
Corundum found by, Lanark co.	242, 243	viii
Geological nomenclature by.....	4	R C
Log of well at Thamesville given		
by	110	A xiv
Magnetic separation of iron ores		
suggested by.....	346, 491	R C
Name "Huronian" suggested by.	70	i
Nickel found by, Sudbury dist.		
(1856).....	235	xii
Wallace mine....	233	i
Notes by, on:—		
Blairton iron mine.....	43	ii
coba'tiferous ore, Whitefish		
river.....	60	B xiv
copper-bearing rocks of L.		
Superior.....	133, 134	vii
Hodge's peat-drying process.		
	198, 199, 209	i
iron ores, occurrences of..	471, 472	R C
natural gas in Que.....	126	i
oil-fields of Canada.....	143	i
Pyroxenite named by.....	437	R C
Prophecy by, re cobalt in Canada.	4, 61	B xiv
References to:—		
experiments by, on iron sand		
of St. Lawrence.....	325	xii
"Notes on Iron Ores of Canada"		
by	340	xii
papers by, on peat.....	197	ii
	206	ix
salt-producing.		
	184, 185, 189	R C
statement by, re well in Lon-		
don, Ont.....	60	i
Views of, re:—		
origin of apatite.....	438, 443	R C
gas and oil.....	115	i
	94	A xiv
metalliferous veins.....	172	i
original rocks of the earth....	65	i

Hunter, Edward

Molybdenite on farm of, near		
Calabogie.....	55	xii

J. C.

Iron mining by, Atikokan river.	131	xi
Manager, Atikokan Iron Co....	59	A xv
President " "	61	A xvi
Vice-President " "	13	A xiv

James

Apatite mining by, Storrington		
tp.	170	R C

M. T.

Manager, Rajah gold mine.....	28	iii
Stella "	281	viii
Sultana " ...	248-251	vi
	43, 50	viii
Wendigo "	71	ix
Notes by, on " "	44	ix

R. M.

See also Atikokan Iron Co.
Hunter Bros.

Iron mining by, Atikokan range.	35	x
	131, 266	xi
	13	A xiv

	Page.	Vol.		Page.	Vol.
Hunter, Samuel			Huron co.—Con.		
Foreman, Stoness mica mine....	134	x	Corniferous formation in.....	25	B xiii
Manager, Richardson corundum			Erie clay in, character.....	126	iii
mine	137	xii	Limestone in, notes by Miller... 66	B xiii	
Bros.	111	x	Salt works in, number, 1897.....	24	vii
Murray and Cleveland.			1898.....	17	viii
Contractors for Welland Canal			Copper Bay claim, NEAR		
aqueduct	73	B xiii	BRUCE MINES, ALG.		
Quarrying by, Niagara tp.....	95	i	Notes on, by Bell.....	23	R C
Cobalt Silver Mfg. Co.			Huronian.		
Capital and date of charter.....	29	A xvi	Break in, important.....	185	ix
island, R. R. D.			Canada, area and thickness.....	195	v
Couchiching formation in.....	47	iv	distribution.....	204	v
Iron ore on..... 22, 61, 125, 126		R C	notes by Bell. 245, 246		v
	88	i	Characteristics of.....	16, 17	R C
	123	iv	Definition of.....	535	R C
	304, 309	xii	Distinction and relationship of,		
	8	A xiii	with Laurentian.....	94	v
	114	A xvi	Distribution of.....	18-22	R C
Vermilion range.....	65	ii		169	i
	200	x	and minerals of. 123, 124		iv
	24, 128	xi	Economic importance of.....	22-31	R C
Hunter street, HAMILTON.				249	v
Mammoth remains in.....	236	A xiii	prospecting in, advisable.	5	v
Stratified deposits beneath.....	228	A xiii	Gold in.....	191	ii
Huntlilte.			talcose slates.....	451	R C
Port Arthur dist.....	55, 58	B xiv	Keewatin, Lac Seul.....	54	v
Silver islet.....	33	R C	Iron ranges of Lower, report by		
	191	ii	Coleman.....	181-212	x
	200	ix	Lakes Superior and Huron, W.		
Huntingdon, GODMANCHESTER TP.,			of, notes by International Com-		
HUNTINGDON CO., QUE.			mittee	274-276	A xiv
Peat at.....	198	ii	Mixed with Laurentian.	7, 8	R C
Huntingdon, HASTINGS CO. See West			Name of, derivation.....	18	R C
Huntingdon.			given by Logan.....	4	R C
tp., HASTINGS CO.			meaning	70	i
Calcite in.....	195	ix	Notes on, by Coe.....	467	R C
See also Kane mine.			Selwyn.....	65-68	R C
Beach in. See West Huntingdon.			Paper on, by Coleman (Western		
Iron in, hematite.....	199	ix	Ont.).....	151-161	vii
mining	97	vii	Petrographical notes.....	154-166	vii
Marble quarrying in. See Crook-			Quebec prov.		
ston.			Mistassini lake.....	18	R C
Marl from, analysis.....	66	B xiii	Timiskaming lake.. ..	174	ix
Mica mining in, idle, 1901.....	28	xi	photo.....	49	B xiv
Talc production of, 1905.....	24	A xv	Relation of, to Laurentian.....	209	vii
See also Henderson mine.			Relations of Lower and Upper,		
Huntington, Prof. A. K.			notes by Coleman	182-184	ix
Notes by, on iron smelting.....	476	R C	United States.		
Huntley, Robert			L. Superior, relation to the		
Chief engineer, Regina g. m. 253, 255		vi	syncline	77	iii
tp., CARLETON CO.			Michigan and Wisconsin.....	246	v
Cambro-Silurian in.....	37	B xiii			
Mica prospecting in. See Carp.					
Peat in.....	190	i	Algoma dist.		
	198	ii	Frederick House river, con-		
Huntsman smelting process.	xxi	i	tact with Laurentian.....	178	viii
	362	R C	L. Huron, report by Coleman.		
Huntsville, CHAFFEY TP., MUSKOKA				157-163	viii
DIST.			to L. Wanapitei....	169	vi
Brick-yard at, notes.....	89	B xv	Mattagami valley....	121, 131, 132	A xv
Hurd cape, BRUCE CO.			Michipicoten div.....	137	viii
Rocks on.....	36	B xiii	contact with Laurentian..	188	vii
Niagara formation.....	50	B xiii		151	xi
Hurley, Col. Thomas J.	159	v	Dog river.....	140	viii
Huron co.			Wawa lake.....	146	viii
Brick works in, notes on.....	70, 71	B xv	notes by Willmott.. 7	Bull. iii	
Chemung and Portage formation			by Coleman. 157, 158		viii
in.....	47	R C	report by J.M. Bell.		
				278-355	A xiv

	Page.	Vol.		Page.	Vol.
Huronian.—Con.			Huronian.—Con.		
Algoma dist.— <i>Con.</i>			Thunder Bay dist.— <i>Con.</i>		
Missinaibi river.....	194, 195	viii	Sturgeon Lake dist., notes by		
Mississagi dist.....	170-172	xii	McInnes.....	88	xii
Niven's base line and south of.	141	ix	belt, The Great		
Paper by Bell.....	63-94	i	Geology of, paper by Bell.....	70-84	i
St. Joseph island, N. of, con-			Rocks northwest of.....	68, 69	i
tact with Silurian.....	38	iii	co.		
Sudbury dist.			Objects of, work by.....	71	A xiv
character.....	2, 4, 9	c xiv	Plant and power of.....	62	A xv
Copper Cliff, contact with			completed.....	13	A xv
Laurentian.....	145	vii	Cobalt Silver Mg. Co.		
Creighton tp.....	45, 46	iii	Capital and date of charter.....	29	A xvi
cut by diabase dikes.....	435	R C	gold mine, Moss tp., Th. B. D.		
divisions of.....	14	c xiv	Discovery of.....	25	R C
Geneva lake.....	222	A xiii	Notes on, by Bell.....	124	v
sediments.....	86-100	c xiv	Blue.....	121-125	v
petrography.....	127-134	c xiv	Cattanach.....	241	R C
Vermilion River valley..	154, 155	x	Coleman, McDer-		
Nipissing dist.			mott & Plummer. 76, 78		v
Abitibi region.....	218	A xiv	McKellar.....	115	R C
Abitibi river.....	193	viii		123	v
Black river.....	180	viii	Purchase price of.....	116	R C
	186	xii	Road to serve, built by Govt....	9	vi
Boston tp.....	262	A xiv	Rocks of, Huronian.....	62, 106	R C
Cobalt div.....	27, 28	B xiv	Sale price of.....	241	R C
description.....	40, 41	B xiv	Silver in.....	28	R C
notes and photos.....	47-49	B xiv	Specimens from, to Colonial and		
Larder lake, notes & photos.	210-214	A xvi	Indian Exhibition.....	266	v
section showing..	205	A xvi	Sylvanite in.....	38, 40	iv
Meteor lake.....	157-159	x		210	ix
Otto tp., contact with Lauren-			Tellurium in.....	38	iv
tian.....	178	xii	Veins in, character.....	117	vi
Timagami Lake dist:.....	56, 57	R C	width.....	66	R C
	162-165	x	Mining Co.		
Vermilion river.....	257	vii	Capital and date of charter.....	9	vii
Wanapitei Lake dist.....	137	vii	Huronite.		
	221	A xiii	Missinaibi.....	200	ix
Rainy River dist.			Sudbury, near.....	194	ii
auriferous.....	180	vii	Hurontario, NOTTAWASAGA TP., SIM-		
Clearwater lake.....	131	vii	COE CO.		
Lake of the Woods:—			Limestone at.....	109	B xiii
contact with Laurentian....	25	iii	Hurricanes. See Storms.		
100, 102, 110, 111, 115, 119		vi	Hursley, C. F.	104	vii
	146	vii	Jay	104	vii
map showing.....	12	iii	Husgafvel blast furnace.		
Little Turtle river, contact			Description and notes on....	486-488	R C
with Laurentian.....	129	vii	Possibility of using, in Ontario..	396	R C
Notes by Coleman.....	4 Bull.	i	Hussey, J.	142	x
	114-124	vi	Husson, Jane.	104	viii
Rainy Lake reg., arrangement			W.	104	vii
and distribution.....	47-50	iv		115	ix
Sandy lake.....	55	v		113, 142	x
Seine River reg.....	77	vi		74	xi
Thunder Bay dist.				66	xii
Animikie iron range, notes by			Huston, James.	80	ix
Silver.....	159, 160	A xv	Joseph	94	viii
Kakabeka falls, contact with			copper mine, MONTGOMERY TP.,		
Animikie.....	129	xi	ALG.		
Lac des Mille Lacs.....	72	vi	Operations at, 1902.....	98	xii
Lake Superior, Jackfish bay..	189	v	Hut lake, W. OF STURGEON LAKE, R.		
report by Coleman.			R. D.		
	163-168	viii	Fahlbands near, mineralized....	176	vii
Loch Earn.....	81	v	Schists on.....	165	vii
Magnetic lake, near.....	73	v	Striae on.....	173	vii
Moss tp.....	62, 106	R C	Hutchins, C. H.	252	xi
Nipigon Lake reg.....	311	xii	Hutchison, Archie.	41	viii
conglomerate. 112, 113, 146, 147		A xvi			
Shebandowan Lake reg.....	74, 75	v			

	Page.	Vol.		Page.	Vol.
Hutchison, H. G.	77	vii	HW 416 gold loc. <i>See</i> Golden		
	244	xi	Whale mine.		
R. D.	125	vii	419 gold loc. <i>See</i> Northwestern		
	244	xi	Ontario Exhibition Co.		
William	16	B xiv	455, 476-479 gold locs. <i>See</i>		
Hutton Mining Co.			Maw, John		
Capital and date of charter	37	A xiii	515 gold loc., MANITOU LAKE,		
tp., NIP.			R.R.D.	63	ix
Iron ore in	186, 201	x	595 gold loc., MANITOU LAKE,		
	224	A xiii	R.R.D.	62	ix
age	298	xii	679, 680, 710, 711 gold locs.,		
analysis	16, 73	A xvi	STURGEON LAKE, TH. B. D.	149	xi
compared to that of Bos-			686 gold loc. <i>See</i> Martin gold		
ton tp.	262	A xiv	mine.		
Michipicoten div.	179, 180	A xv	715, 716 iron loc., BIG VER-		
development of, awaits			MILION LAKE, R. R. D.		
railways	10, 12	A xiv	Notes on, by Fraleck, photo of		
in Keewatin formation ..	30	B xiv	ore from	176, 177	A xvi
magnetite	8	A xiii	Hyatt, Thaddeus.	176	A xiv
map showing	321	xii	Hyde creek, DENBIGH TP., ADDING-		
	217	A xiii	TON CO.	224	viii
mining	177, 178	x	Park Exhibition, LONDON.		
	39	A xvi	Lessons of	412	R C
<i>See also</i> Moose Mt. iron			Hydrated lime.		
mine.			Notes on, by Miller	v	B xiii
notes by Coleman ..	216-221	A xiii	Hydraulic lift-lock.		
prospecting	20, 21, 49	xii	Trent canal, photo	16, 17	B xiii
prospects promising ..	16	A xvi	Hydrogen.		
west of, notes by Culbert.			Calorific power of	185	i
	222-224	A xiii	Hydrostatic pressure.		
probability of ..	15	A xv	Theory of, in relation to gas and		
Morainic material west of	102	C xiv	oil	150-152	i
Rocks in, Huronian	127	C xiv	Hyman, J. W.	104	vii
Terrace in, altitude	103	C xiv		104	viii
Huxley, Prof. Thomas Henry. 492, 507		R C	tp., ALG.		
HW 6, 38, 63. <i>See</i> Moose Lake Mg.			Biotite in	195	ix
and Milling Co.			Chrome-magnesia mica in	203	ix
20 gold loc. <i>See</i> Paymaster			Crystalline schists in	80, 81	i
gold mine.			Fuchsite (?) in	198	ix
31 gold loc. <i>See</i> Peninsular			Hynes, M. J.		
gold mine.			Terra-cotta making by	78, 85	R C
35 gold loc., NEAR SUMMIT			William		
LAKE, R.R.D.	68	A xiii	Gypsum mining by, Brantford tp. 281		v
49=51 gold locs. <i>See</i> Orion			<i>Hypericum canadense.</i>		
gold mine.			Abi'ibi Lake dist	241	A xiv
54 gold loc. <i>See</i> Royal Sover-			Hypersthene.		
eign gold mine.			Parham station, near	200	ix
66 gold loc. <i>See</i> Big Dick gold			<i>Hypnum fluitans</i> (fossil moss).		
mine.			Ottawa, near	225	x
74, 75 gold locs. <i>See</i> Leullier			Hypogene.		
A. and Paulson, Paul and			Definition of	536	R C
Giant gold mine.					
113 gold loc., PELICAN LAKE,					
NEW KLONDIKE DIST	64	ix			
125, 126 gold locs. <i>See</i> Big					
Ruby gold mine.					
130-132, 135 gold locs. <i>See</i>					
Northern Queen gold mine.					
144 gold loc. <i>See</i> Blum, An-					
thony					
167 gold loc., LAHAY BAY,					
MANITOU LAKE, R. R. D.	123	vii			
170 gold loc., NEAR MOONSHINE					
LAKE, R. R. D.	123	vii			
185 gold loc. <i>See</i> Giant gold					
mine.					
339 gold loc. <i>See</i> Barker Bros.					
391, 594 gold locs. <i>See</i> Glass					
Reef gold mine.					

	Page.	Vol.
Ickta lake , GALBRAITH TP., ALG.		
Description of: veins around:		
map of	39, 40	iii
Gold mining on. <i>See</i> Ophir mine.		
Rocks on.....	41	iii
Ida mt. , ADRAMYTI GULF, ASIA MINOR	167	i
Iddings, Prof. J. P.	121	A xiii
<i>Ide.</i>		
Meaning of, as a termination. . .	447	R C
Ideal gold m. , VAN HORNE TP., R. R. D.		
Notes on, 1903.....	66	A xiii
1904.....	51	A xiv
1905.....	55	A xv
Shut down, 1906	59	A xvi
Gold Mining Co.		
Work by, Van Horne tp.....	66	A xiii
<i>See also</i> last ref.		
Idocrase. <i>See</i> Vesuvianite.		
Idria quicksilver mine , AUSTRIA.		
Arsenic in.....	101	xi
Ignace , RAINY RIVER DIST.		
Geology of vicinity.....	161, 162	vii
Gold near.....	71	iv
Granite quarries at.....	129	xi
Moraine near.....	172	vii
Road from, to Sturgeon Falls, built by Govt.....	9	vi
Route from. to Sturgeon lake.	147, 148	xi
Igneous rocks.		
Classes of, in Ont.....	237	viii
Classification and description of, by Miller	232-234	vi
Mode of formation.....	229, 230	vi
Illinois , U. S.		
Brick pavements in cities of	108, 109, 112, 113	iii
Geological survey of, notes by Walker.....	421	R C
Iron industry in, 1891.....	127	ii
growth of	327	R C
Shales of, analyses.....	120	iii
Steel Co.	111	ii
University.		
Notes on, by Richards.....	511	R C
Ilmen mt. , NOVGOROD DEP., RUSSIA.		
Minerals of	213	vii
Ilmenite. <i>See also</i> Titaniferous iron ores.		
Baie St. Paul, Que., containing nickel	231	vii
Definition of.....	536	R C
Determination of	204, 215	vi
Hardness of.....	202	vi
Magnetic permeability of.....	324	xii
Occurrences of.....	200	ix
Specific gravity of.....	202	vi
Ilseberg , BRUNSWICK, GERMANY.		
Ancient foundry at.....	356	R C
Ilvaite (LIEVRITE or YENITE).		
Ottawa, near	194	ii
	201	ix
Imogen river , L. SUPERIOR.		
Quartz veins near.....	353	A xiv
Rocks near mouth of	349	A xiv
<i>Impatiens fulva.</i>		
Abitibi Lake dist.....	241	A xiv

	Page.	Vol.
Imperial and Colonial Institute	4	vii
Bank.		
Photo of, at Cobalt.....	68	B xiv
Cement Co.		
Analysis of clay and marl used by.....	183	A xiv
Notes on, 1900.....	16, 17	x
1902	17, 18	B xiii
1904 and photo of plant.	144-146	A xiv
Operating, 1901	32	xi
1902.....	31, 32, 35	xii
1903.....	17	A xiii
1905.....	17	A xv
1906.....	20	A xvi
Cobalt Silver Mines Co.		
Capital and date of charter	28	A xvi
Copper Co. of Parry Sound.		
Capital and date of charter.....	10	ix
Copper mining by, Foley tp.....	168	ix
Corundum Co.		
Capital and date of charter.....	11	xi
gold mine , HELL-DIVER BAY, L. OF THE WOODS.		
Idle, 1900.....	79	x
Notes on, 1899.....	57, 58	ix
Photo.....	64, 65	ix
gold mine , MANITOU LAKE DIST., R.R.D.....	92	xii
iron mine , SNOWDEN TP., HALIBURTON CO.		
Analysis of ore from.....	62	ii
Cost of working ore from... 388, 389		R C
Notes on, by Pusey.....	131	R C
Land and Mg. Syn.		
Capital and date of charter.....	10	vii
Land Co.		
Analysis of clay used by	15, 27	B xv
Brick-making by, Sturgeon Falls.	84	B xv
Natural Gas, Ltd.		
Capital and date of charter.....	5	xii
Gas wells at Bow Park farm leased to	108	A xiv
Oil Co.		
Borings by, in Lambton field... 24		A xiii
Effect of formation of, in Petrolea.	40	xi
Exhibit of, at Pan-American Exhibition	86, 90	xi
Operating, 1897.....	17	vii
1902.....	40	xii
Output of, 1905.....	22	A xv
Plant of, at Sarnia.....	18	x
notes on.....	101	A xvi
Purchasers of oil in the Tilbury and Romney fields.....	94, 104	A xvi
Statistics by, 1906.....	24, 95	A xvi
Paper Mills.		
Pulp mill of, at Sturgeon Falls..	14	A xv
Peat Fuel Co.		
Formation of.....	28, 37	A xiii
Plaster Co.		
Capital and date of charter.....	9	xii
Products of.....	21	A xiii
Portland Cement Co.		
Exhibits of, at Pan-American Exhibition	88	xi
Pulp and Paper Co.		
Brick-making by, Sturgeon Falls.	84	B xv

	Page.	Vol.		Page.	Vol.
Imperial Refinery Works.			Indian Chief Gold Mg. and Development Co.		
Notes on, by Blue.....	26	v	Capital and date of charter.....	10	vii
Silver Mg. Co.			corn.		
Capital and date of charter.....	25	A xv	Lake of the Woods.....	92, 105	vi
Independence Cobalt Silver Mines Co.			Mississagi river.....	164, 167	xii
Capital and date of charter.....	28	A xvi	New Post, Abitibi river.....	186	viii
(WESTERFIELD) gold mine,			Preparation of, for hominy.....	199	v
MANITOU LAKE, R.R.D.			Timagimi lake.....	58	R C
Notes on, 1898.....	75, 76	viii	Head, U. S.		
1899.....	62	ix	Armour plate tests at, with nickel		
1901.....	250	xi	steel.....	136, 137, 141	ii
1903 (as Reliance mine).				148	iii
	66, 67	A xiii		186, 196	iv
gold mine, near STURGEON			hill, RAGLAN TP., RENFREW CO.		
FALLS, SEINE RIVER.			Corundum and garnet on....	222, 223	viii
Felsite schists in.....	263	viii	Joe.....	49	vii
Notes on, 1898.....	46, 81-83,, 274	viii	Joe gold mine, CLYTIE BAY, L.		
1889 (as Rice and Thor-			OF THE WOODS.		
bus claim).....	76	ix	Notes on, 1902.....	94, 95	xii
Mg. and Dev. Co.	46, 81	viii	1903.....	62	A xiii
India. (i.e., BRITISH EAST INDIA.)			Joe Gold Mg. Co.		
British methods in.....	9	iv	Capital and date of charter.....	5	xii
Corundum of, notes by Holland.			lake, NORTH OF IGNACE, R.R.D.		
	230-234	viii	Agricultural land in dist. of.....	182	vii
	Miller..	viii	Geology of.....	162	vii
Iron smelting in, notes on.....	355	R C	Timber near.....	180	vii
Mica of, competing with Canadian.	28	xi	Lake Copper mine. See Kim-		
qualities.....	135	x	berley copper mine.		
Population and railways of.....	122	ii	legends.		
Indian(s).			Caribou island.....	110, 111	v
See also Ojibway Indians.			Michipicoten island.....	112	v
Abitibi dist., diseases among....	186	viii	Re showing a mineral discovery		
Abitibi lake, photo,....	176, 177	A xiii	to a white man.....	35	R C
Cannibalism among.....	138	v	Windigoostigwan lake.....	138	v
Fort Mattagami.....	182	x	relics.		
photo.....	128, 129	ix	Holmesdock, Rainy river.....	165	v
Graves of:—			Iroquois lake.....	230	A xiii
Hay island, L. of the Woods,			Lac des Mille Lacs.....	74, 114	v
photo.....	80, 81	vi	Wallbridge iron mine.....	133	R C
Hell-diver bay, L. of the Woods,			reserves.		
photo.....	51	v	Lac des Mille Lacs.....	114	v
Michipicoten, photo.....	204, 205	vii	Michipicoten river.....	101	vii
Misemikowish lake.....	222	xi	Minnesota, U.S.....	166	v
Nipigon lake, photo.....	146	A xvi	Rainy Lake dist., area.....	167	v
James Bay dist.....	134	iv	Rainy lake.....	164	v
Lichens eaten by in extremity...	86	vi	Seine river.....	153	v
Lost lake, R.R.d.....	60	v	river, ENGLISH RIVER.		
vegetables grown by.....	182	vii	Rocks on.....	147	xi
Mattagami river.....	123	A xv	"Indian Soap."		
Michipicoten div.			Harwich tp.....	125	i
copper mining by.....	80	iii	"Indiana" ss.		
notes by J. M. Bell.....	297, 298	A xiv	Armour plate of.....	149	iii
Missinaibi, photo.....	201	A xv	Indiana, ONEIDA TP., HALDIMAND CO.		
Mississagi dist., photo.....	160, 161	xii	Gypsum at.....	52	B xiii
Moose Factory.....	192	viii	Indiana, U.S.		
Moose island, photo of camp.....	200, 201	viii	Brick pavements in cities of....	108	iii
Moose River basin.....	178, 179	A xiii	Moraine in.....	123	ix
Night-hawk lake.....	181	vi	Natural gas in.....	151, 152	R C
	107	A xiii		115, 143, 145	i
Nipigon lake, photo of camp....	143	A xvi	depth and pressure.....	155	i
Pipes of, artistically carved.....	97	iv	similar to that of Kent co....	99	A xvi
Poplar Rapids river.....	124	A xv	Oil in, flash test for.....	164	R C
Rainy Lake dist., notes by Cole-			Indicolite.		
man.....	97, 98	iv	Madoc and Elzevir tps.....	200	ix
Reported to have attacked Pointe-			Industrial Mining, Development		
aux-Mines.....	129	viii	and Investment Co.		
White-bear lake.....	161	x	Capital and date of charter.....	10	vii
Windermere lake.....	201	viii			

	Page.	Vol.
Inez (OR CHICAGO OR TRAVERS) nickel mine, DRURY TP., ALG.		
Greenstone in.....	81	C xiv
Minor ref. to.....	143	vii
Idle, 1894.....	249	iv
1895.....	273	v
Norite in.....	112	C xiv
Notes on, by Coleman.....	194	A xiii
23. 144	C xiv	
1891.....	232	i
1892.....	248	ii
1893.....	189, 190	iii
1896.....	276, 277	vi
1897.....	93	vii
"Inflexible," H.M.S.	143	ii
Infusorial earth. See Tripolite.		
Ingal, Elfric Drew		
Extract from report by, on silver of L. Superior dist.....	31	R C
51-58	B xiv	
Minor ref. to.....	270	A xiv
Ref. to report by, on iron ores of Kingston-Pembroke Ry. dist..	95	A xiii
Reference to report by, on silver in L. Superior dist.....	32	R C
237	iv	
146, 150	ix	
96	xii	
101	A xiii	
Views of, <i>re</i> Animikie series.	134, 135	vi
Ingersoll, OXFORD N. TP., OXFORD CO.		
Brick-yard at.....	85	B xv
Oil refineries at.....	157	R C
Ingolf, R. R. D.		
Distance from, to Mattawa.....	193	v
Ingram tp., NIP.		
Cobalt bloom and smaltite in....	29	B xiv
-nickel ore in.....	5, 29	B xiv
Ingersoll Rock Drill Co.		
Acknowledgments to.....	197	vi
Proposal by, <i>re</i> supplying Govt. drill	168	iv
Inks.		
Graphite for.....	14	ix
Sympathetic, composition of....	13	B xiv
Inner Barn, WABINOSH BAY, L. NIP-IGON.		
Limestone on.....	111	B xiii
Inostranzeff, Alexander A.		
Analysis by, of schungite.....	166	vi
Inquests.		
On deaths from mining, notes on.	176, 177	iii
Insect(s).		
Abitibi dist.....	127-129	A xiii
Rainy Lake dist.....	97	iv
Insecticides.		
Arsenic compounds for.....	113-116	xi
69	xii	
32	B xiv	
Formulae for making.....	117	xi
Inspector of Mines.		
Qualifications of.....	410	R C
Reports by, annually, on the mines of the province:—		
1891 (Slaght).....	222-247	i
1892 ".....	231-254	ii
1893 ".....	181-199	iii
1894 ".....	225-253	iv

Inspector of Mines.—Con.

	Page.	Vol.
Reports by, annually, on the mines of the province.— <i>Con.</i>		
1895 (Slaght).....	261-284	v
1896 ".....	247-281	vi
1897 ".....	85-100	vii
(Bow).....	34-84	vii
1898 ".....	49-99	viii
(De Kalb).....	29-48	viii
1899 ".....	89-111	ix
1899 (Bow).....	35-88	ix
1900 ".....	69-90	x
(Carter).....	90-112	x
(De Kalb).....	113-135	x
1901 (Carter).....	231-298	xi
1902 ".....	108-140	xii
(Miller).....	73-107	xii
1903 ".....	88-95	A xiii
(Carter).....	58-87	A xiii
1904 ".....	43-75	A xiv
(Corkill).....	76-88	A xiv
1905 ".....	47-107	A xv
1906 ".....	55-91	A xvi

Instant, Reginald

Engineer, Craig Corundum mine.	63	xi
Experiments by, on corundum rock.....	239	viii

Insurance rates.

Affected by waterworks.....	55	i
-----------------------------	----	---

Intercolonial Deep Well Boring and Mfg. Co.

Capital and date of charter.....	10	vii
----------------------------------	----	-----

Interior Construction and Improvement Co.

Amount paid by, to Treasury, 1900.....	18	x
Gas export of.....	39	xii
prohibited.....	45	xi

plateau, B. C.

Eruptive contacts in.....	160	vii
---------------------------	-----	-----

International Asbestos Co.

Capital and date of charter.....	38	A xiii
Work by, Elzevir tp.....	93	A xiii
stopped by blowing out of dam.....	87	A xiv

Cobalt and Silver Mfg. Co.

Capital and date of charter.....	29	A xvi
----------------------------------	----	-------

Committee on Geological Nomenclature.

Notes, by Gibson, on conclusions arrived at.....	299	A xiv
Photos of.....	277	A xiv

Report by, on Pre-Cambrian nomenclature.....	269-277	A xiv
Work by, Hastings dist.....	221	A xvi

Copper Co.

Historical notes, by Ritchie.....	171	C xiv
Price of nickel controlled by....	59	A xiii

Gold and Copper Co.

Capital and date of charter.....	38	A xiii
Work by, Barrie and Kaladar tps.....	112	xii

Gold Mfg. and Dev. Co.

Option held by, on Ophir g. m..	42	iii
Working Gray Eagle g. m.....	59	vii

Iron Mfg. Co.

Capital and date of charter.....	37	A xiii
----------------------------------	----	--------

Mica Co. See National Mica Grinding Co.

	Page.	Vol.		Page.	Vol.
International Mica and Mining Co.			Iridosmine. See Osmiridium.		
Capital and date of charter.....	11	xi	<i>Iris versicolor.</i>		
Mining Co.			Abitibi Lake dist.....	241 A	xiv
Capital and date of charter.....	9	xii	Mattagami valley	150 A	xv
Licence to	66	xii	Irish, A. W.		
Nickel Co.			Gold mining by, L. of the Woods.	117	vii
Acknowledgments to	235, 258	xii	Bud	27	ix
Canadian Copper Co. absorbed			Creek, WOLFORD TP., GREN-		
by	117	xii	VILLE CO.		
Cobalt speiss shipped to.....	12 A	xvi	Calciferous formation at.....	47 B	xiii
Composition of.....	140 C	xiv	Peat Fuel Co.	193, 194	i
Formation of.....	21	xi	Iron AND Iron mining.		
Frood mine owned by	264, 265	xii	Compounds of, notes on classes		
Huronian Co. formed by	71 A	xiv	of.....	54 B	xv
Officers of	22	xi	Desulphurizing of, notes on...	92-96	ii
Smelter of, for Cobalt ores.....	73 B	xiv	Duty on, effect of.....	232-234	R C
Oil and Gas Co.			Exploring for, hints to prospect-		
Capital and date of charter	25 A	xv	ors.....	453, 454	R C
Peat Co.			notes by Coe. 464-467		R C
Capital and date of charter.....	24 A	xiv	For furnaces, advantages of		
Portland Cement Co.			wrought.....	377	R C
Analysis and notes of clay and			From magnetic ores, notes on		
marl used by.....	183 A	xiv	making.....	473, 474	R C
	31, 116 B	xv	From titaniferous ores, quality		
Capital and date of charter.....	5	xii	of.....	231	vii
Notes on, by Gillespie.....	140-142 A	xiv	Industry of:—		
salt-well, GODERICH.			causes which affect.	237	i
Notes on, by McEwan.....	54	R C		192	iii
salt-well, KINCARDINE.			future of, notes by Hardy. 367-369		R C
Log of.....	184	R C	paper by J. Bawden... 468-486		R C
Silver Mg. Co.			Magnetic concentration of, paper		
Capital and date of charter.....	10	vii	by Wells	322-342	xii
Inter-Ocean Mg. and Prospecting			Manufacture of pig, paper on		
Co.			locations for	122-128	ii
Capital and date of charter	10	vii	Mining of, neglected, 1855-1895..	7	v
Interprovincial Mg. Co.			revival in, 1898 ..233, 234		vii
Capital and date of charter.....	30 A	xvi	Origin of, notes by Bell	13	R C
Interstate Consolidated Mineral			Proportion of, in earth's crust... 447		R C
Cor.			Royalties on, in other countries. 19		i
Capital and date of charter.....	10	x	Smelting of, paper by Hardy. 319-366		R C
Operating Big Master g. m.....	91	xii	peat for.....	207-209	i
	4 A	xiii	See also Smelting.		
Work by, 1900.....	98	x	Specific gravity of.....	448	R C
Inverarite.			Supply of, exhaustion of.....	7 A	xiii
Composition of.....	170	ii	Treatment of, paper by Blue ...83-96		ii
Investors Mg. and Development			World's production, 1800, 1888.xviii		R C
Co.			1886-1888.... 224		R C
Capital and date of charter.....	10	vii	various dates. 223		R C
Inwood, BROOKE TP., LAMTON CO.			Canada.		
Boring in, for oil and gas, log. 111, 114 A		xv	Bounties on, 1883-89.....	328	R C
proposed. 107		ix	Consumption, 1868-1886	397	R C
T. enton formation at, height			annual	216	R C
above tide level.....	113 A	xv	Exports, 1881-1887	244-254	R C
"Iowa" S. S.	186-188	iv	1885-1888.....	225	R C
Iowa, U. S.			Production, 1870, 1880.....	209	R C
Brick pavements in cities of. 108, 109		iii	1887 xviii, 209, 213, 243		R C
Shales of, analysis	120	iii	1901.....	322	xii
Ireland.			Report on, by Harrington (syn-		
See also Great Britain.			opsis).....	52-56	ii
Iron ores from, for Baltimore... 400		R C	Keewatin, Lac Seul (mag.)	61	v
Mineral lands in, royalty on..36, 37		i	Nova Scotia, Pictou	398	R C
Peat in, amount of water in . . . 192		i	Quebec, Opasatika lake.....	230	xi
as a fuel, tests on.....202, 203		i	Moisie river, concentrat-		
	201	ii	ed by magnetic separ-		
drying process.....	195	i	ator.....	491	R C
industry, notes on.....	189	i	notes	24-28	ii
Peat-charcoal in, price of.....	207	i	by Hunt.....	346	R C
Irena, MATILDA TP., DUNDAS CO.			Quinze river, notes by		
Morainic drift near.....	220	x	Miller	226, 227	xi

	Page.	Vol.
Iron AND Iron mining.—Con.		
Ontario.		
Bounties on.....	31	iv
1883-89.....	328	R C
1883-1893.....	28	ii
1900.....	31-33	x
conditions.....	74	ii
Connée's views.....	112	ii
<i>See also</i> Iron Mining Fund.		
Chromium in non-titaniferous...	233	vii
Eastern, evidence before R. C.	130-141	R C
notes by Merritt...	127-130	R C
Exhibits of, at World's Fair, list.	78-82	ii
Hudson Bay slope.....	127	iv
Huronian areas.....	20-23	R C
notes by Bell.....	87, 88	i
report by Coleman...	181-212	x
Industry, 1900.....	26-31	x
facts and opinions,		
paper by Blue....	96-122	ii
1887, notes by the		
Commissioners ..	215-217	R C
possible expansion...	225	R C
Keewatin formation, occurrences		
in.....	30 B	xiv
Manufacturing of, paper on....	13-30	ii
prospects of..	28-32	iv
Mining and smelting of, evidence		
before R. C.....	390-402	R C
early.....	255	R C
Inspector's report on for :		
1891.....	236-238	i
1893.....	191, 192	iii
1894.....	249	iv
1895.....	274-276	v
1897.....	97	vii
1898.....	30-32	viii
1899.....	87, 88, 102, 105	ix
1900.....	126-129	x
1901.....	258-266	xi
1902.....	102-104, 113-115	xii
1903.....	73-77, 94, 95 A	xiii
1904.....	59, 60 A	xiv
1905.....	70-72 A	xv
1906.....	72-74, 80-82 A	xvi
paper by Blue.....	58-82	ii
Northern, report by Miller..	304-317	xii
Northwestern, report by Coleman.....	128-151	xi
Notes on, 1898, by Provincial Assayer.....	288	viii
Occurrences.....	68	R C
191.....	8, 9 A	xiii
notes by Blue...175, 176		i
paper by Blue....	58-82	ii
Ranges of, extent.....	200, 201	x
report by Coleman...	150-174	ix
Statistics of, 1870, 1880, 1887....	210	R C
1881.....	116	ii
1885-88 (exports)...	225	R C
1888.....	72	R C
1891.....	6	i
1896.....	13	vi
		ix

	Page.	Vol.
Iron AND Iron mining.—Con.		
Ontario.—Con.		
Statistics of, 1897... Pref. Pts. II and		
III, 15, 24		vii
1898.....	11, 18	viii
1899.....	ix	viii
13, 14		ix
1900.....	7, 11, 12	x
1901.....	8, 12, 13, 23	xi
1902.....	12, 13, 19	xii
1903.....	2, 7 A	xiii
1904.....	1, 3, 13-15 A	xiv
1905.....	1-3, 14 A	xv
1906.....	3-6, 16-18 A	xvi
Algoma dist.		
depression in industry (1891)...	8	
Desert lake.....	143	R C
Echo lake.....	143	R C
Garden River reserve.....	143	R C
Kamiskotaia lake, near (hem.)		
120, 130, 133 A		xv
Lacloche mts.....	143	R C
Loon lake.....	144	R C
McDonald tp.....	143	R C
Manitoulin island, boring for.		
43, 45 A		xiii
Mattagami river (lim.)....	152-154 A	xiii
Michipicoten div.		
Little Gros Cap.....	11 Bull.	iii
Pike lake.....	203	viii
prospecting for.....	254	v
report by Coleman and Will-		
mott.....	152-185	xi
J. M. Bell....	278-355 A	xiv
report by Coleman and		
Moore.....	173-206 A	xv
Wawa lake (near), with jas-		
per.....	11 Bull.	iii
<i>See also</i> Michipicoten Mg. div.		
Helen iron mine.		
Mississagi.....	143	R C
Oba river (lim.).....	156 A	xiii
Opasatika river.....	136, 150-152 A	xiii
Ruby lake.....	144	R C
Shining-tree lake.....	184	vi
Sudbury district.....	59	R C
Wallace mine, near.....	142, 143	R C
notes by Mer-		
ritt.....	123	R C
Frontenac co.		
Bedford tp., boring for..	5, 174-176	iv
Glendower mine,		
notes.....	227, 228	v
Olden tp.....	54 A	xiii
Palmerston tp. (mag.).....	218	v
Grey co.....	43	R C
Haliburton co., blast furnace		
proposed.....	326, 395	R C
evidence before R. C.....	52, 388	R C
Lutterworth tp., mining.....	57 B	xiii
Hastings co., Mayo tp., analyses.	97 A	xv
tests.....	333, 334	xii
Kingston dist.		
character of ore.....	392	R C
cost of production.....	391	R C
evidence before Roy. Com.		
52, 131-141		R C
waterpower for working.....	390	R C

	Page.	Vol.
Iron AND Iron mining.—Con.		
Ontario.—Con.		
Lanark co.		
Bathurst tp., notes by Rattle.	52, 138	R C
Carleton Place.....	68	R C
Darling tp., notes by Rattle.	52, 138	R C
Nipissing dist.		
Boston tp., report by Miller..	261-267	A xiv
Burwash lake.....	15	A xv
	16, 74	A xvi
Falconbridge tp., boring for.	51, 53	xii
Haileybury, near	12	A xiv
Hutton tp., (Moose Mt. range)	39	A xvi
analyses.....	73	A xvi
map.....	217	A xiii
notes by Coleman.....	216-221	A xiii
paper by Leith.....	318-321	xii
prospects promising.....	16	A xvi
report by Miller.....	160-180	x
James bay, south of.....	69, 70	R C
Montreal river.....	15	A xv
(specular).....	127	iv
Shining-tree lake.....	15	A xv
Timagami (near).....	49	A xvi
Timagami lake.....	56	R C
	15	A xv
Tomiko river	58	R C
Wisner tp.....	220	A xiii
Parry Sound dist.....	16	A xvi
Foley tp., boring for	44, 45	A xiii
prospecting for, 1902	50, 51	xii
Peterborough co.		
Belmont tp.	51	iii
analysis	130	R C
Rainy River dist.		
Atikokan river.....	61, 144	R C
	73-75	iv
	142	v
Black Sturgeon lake (near) ...	29	iii
Harold lake, prospecting for.		
results in finding gold	140	v
Hunter island	125, 126, 144	R C
	123	iv
Lake of the Woods, discovery.	64	R C
Rainy lake.....	144	R C
Seine river	73-75	iv
Steep-rock lake, locations.....	71	v
Wabigoon (near), in streams..	171	vii
Whiskey Jack lake.....	141	v
Renfrew co., Calabogie, near....	234	vii
Simcoe co., discharging at Mid-		
land, photo.....	16, 17	x
Thunder Bay dist.		
Animikie range.....	156-162	A xv
Eagle river, English river. .	64, 145	R C
Greenwater lake.....	81, 126, 127	v
Gunflint lake	144	R C
	123	iv
notes by Sedgwick	126, 127	R C
Kaministiquia river.....	61	R C
L. Superior dist.		
Black bay	189	v
character	144	R C
evidence before R. C.....	61-63	R C
Little Pic river.....	37	R C
Loon Lake area, report by		
Silver.....	254-260	A xiv

	Page.	Vol.
Iron AND Iron mining.—Con.		
Ontario.—Con.		
Thunder Bay dist.—Con.		
Matawin range.....	209	v
notes by Blue....	131, 132	v
report by Coleman.....	80-84	v
Nipigon lake, east of:—		
report by Coleman.....	105-135	A xvi
Moore.....	136-148	A xvi
map to accompany... ..	108, 109	A xvi
North lake, notes by Sedgwick.	126, 127	R C
Pigeon River dist., evidence		
before R. C.....	144	R C
Wellington co., Palmerston....	139	R C
Other countries.		
Algeria, supplying Le Creuzot		
works	501	R C
France, royalties on.....	19	i
Germany, cost of making.....	396	R C
Great Britain.		
Cumberland co.....	133	R C
production, 1800, 1850.....	399	R C
1888	xviii	R C
reason for successful industry..	xxi	R C
royalties on	18, 27, 28	i
Greenland (native)	151	C xiv
Norway, character of ore....	138, 392	R C
Spain, Bilbao.	19, 20, 26, 28, 30	i
Sweden, cost of making.....	396	R C
United States.		
Clinton co., N. Y.....	43	R C
cost of production.....	10	i
industry, 1903	145, 146	iii
Michigan	20	R C
cost of boring for.	231, 232	v
notes by Coleman.....	150-152	ix
Minnesota	231	v
notes and diagrams	123-125	R C
output, 1884-88.....	208	R C
New Jersey, treatment of mag-		
netic ores.....	102, 103	ii
Pennsylvania, paper on indus-		
try.....	117-120	ii
Statistics, 1887.....	213	R C
1888.....	525	R C
Royalties on.....	12, 40, 42	i
Tower, width of beds.....	144	R C
"Iron."		
Extract from, <i>re</i> iron in Canada.	468	R C
"Iron Age."		
Statistics from, <i>re</i> labour in U. S.		
iron trade, 1887	469	R C
Iron and Steel Co. of Canada.		
Capital and date of charter.....	37	A xiii
chromate. See Chromite.		
City Tool Works.	119	ii
creek, DOG RIVER, L. SUPERIOR.		
Drainage area of	285	A xiv
Iron formation north of	314	A xiv
mine on, photo	322	A xiv
mining north of.	321	A xiv
Minor ref. to.....	291	A xiv
Portages near, description	290, 291	A xiv
dam, VERMILION RIVER, NIP.		
Iron ore from, analysis	218	A xiii
Dam rapid, VERMILION RIVER,		
NIP.....	298	xii

	Page.	Vol.
Iron Duke iron mine, DARLING TP., LANARK CO.		
Ore from, shewn at Chicago.....	80	ii
formation.		
Larder lake.....	211 A	xvi
Michipicoten div. <i>See</i> Michipicoten div.		
Nipigon Lake dist.		
17, 111, 123-126, 144, 145,	207 A	xvi
disturbed state of.....	114 A	xvi
gabbro dike in.....	119, 126 A	xvi
gold in rocks of.....	207 A	xvi
photo.....	120 A	xvi
Windigokan lake.....	143 A	xvi
island, L. NIPISSING.		
Iron ore on.....	87	i
exhibited at World's Fair.	80	ii
hematite.....	55	ii
specular.....	63	ii
Limestone on, crystalline.....	68	i
notes by Barlow.....	83 B	xiii
lake, McTAVISH TP., TH. B. D.		
Rocks on, photo.....	169 A	xv
lake, MICHIPICOTEN DIV.		
Fault west of.....	311 A	xiv
Iron ores on and near.....	257	viii
160	161	ix
analysis.....	320 A	xiv
boring for.....	104	xii
mining.....	139	x
siderite and magnetite.	313 A	xiv
prospects promising...	321 A	xiv
Photos of.....	290, 291 A	xiv
Rocks on and near.....	256	viii
303, 304, 308, 313, 316,	354 A	xiv
chert, analysis.....	309, 310 A	xiv
greenstone.....	302 A	xiv
Iron formation, notes by J. M.		
Bell and photos.....	317-319 A	xiv
notes by Bain.		
320, 321 A	320, 321 A	xiv
width.....	339 A	xiv
jaspilite.....	309 A	xiv
phyllites.....	343 A	xiv
Route to, from Frances lake.	290, 291 A	xiv
Trees on.....	296 A	xiv
lake, N. OF ECHO LAKE, ALG.		
Notes on, by Coleman.....	124	viii
Rocks on.....	159	viii
lake, TIMAGAMI DIST., NIP.		
Iron ore on.....	170	x
with jasper, photo.	176, 177	x
Mining Fund.		
Creation of and objects.....	32	iv
Modification of terms of.....	7	viii
Payments out of, 1896-1900.....	32	x
1901.....	26	xi
1902.....	25	xii
1903.....	11 A	xiii
1904.....	14, 15 A	xiv
mt., ATIKOKAN RIVER, R. R. D.		
Description of.....	141	v
Iron on, notes by Coleman.....	75	iv
Notes on, by McKellar.....	71	ii
Photo of.....	80, 81	v
ochre or Iron paint. <i>See</i> Ochre.		
oxalate. <i>See</i> Humboldtine.		
phosphate. <i>See</i> Vivianite.		

	Page.	Vol.
Iron pyrites. (PYRITES OR FOOL'S GOLD.)		
Association of, with gold.....	37	iv
Canada, production.....	525	R C
1870, 1880.....	209	R C
1886, 1887.....	243	R C
Crystals of, exhibited at World's Fair.....	187	ii
Determination of.....	203, 206,	vi
Effect of, on apatite deposits....	442	R C
European deposits.....	192 A	xvi
Hardness of.....	202	vi
In building-stones.....	133, 134	iii
Lac Seul, Kee.....	61	v
Mines of, notes on.....	20 A	xv
historic..	149, 150 A	xvi
Mistaken for gold.....	9 Bull.	iii
Notes on.....	536	R C
72, 73 A	72, 73 A	xvi
by Bauerman.....	472	R C
Occurrences of.....	207	ix
Ontario, report by Fraleck..	149-201 A	xvi
Prices of.....	184, 185 A	xvi
Prospecting for, hints <i>re</i>	455	R C
notes by Fraleck.		
185, 186 A	185, 186 A	xvi
Quebec, L'Assomption river. ...	443	R C
Wright silver mine....	101 A	xiv
24 B	24 B	xiii
Specific gravity of.....	202	vi
Statistics, 1870, 1880.....	210	R C
1901.....	13	xi
1902.....	12, 13, 38	xii
1903.....	3, 4, 22 A	xiii
1904.....	1, 3, 19, 72 A	xiv
1905.....	1, 4, 21 A	xv
1906.....	4, 6, 21, 22 A	xvi
1901-1906.....	201 A	xvi
United States, production.....	525	R C
Virginia, notes by Fraleck.....	192 A	xvi
Uses of....	256, 257	v
Abitibi lake.....	219, 220 A	xvi
Big river, Opasatika river.....	243	v
149, 181 A	149, 181 A	xvi
notes by Driver... ..	255, 256	v
Conmee tp., mining, 1900... ..	107, 108	x
Edgewood island, L. Huron....	109	R C
Elizabethtown, with cobalt and nickel....	60 B	xiv
Gold creek, Matawin river.....	82	v
Goudreau lake.....	184-187 A	xv
Hastings co.		
Madoc tp., Bannockburn.....	38	xii
Madoc, near.....	20 A	xv
22 A	22 A	xiii
notes by Miller.....	199	xi
on mine.....	39 A	xiv
<i>See also</i> Jarman py. m.		
Hungerford tp.....	20, 94 A	xv
Hungerford.....	133	R C
mill at, for sulphuric acid. ..	79 A	xvi
<i>See also</i> British American Pyrites Co.		
Helen iron m., Michipicoten div.	38	xii
22 A	22 A	xiii
20, 71 A	20, 71 A	xv
22, 73 A	22, 73 A	xvi
paper by Fraleck.....	164-169 A	xvi

	Page.	Vol.		Page.	Vol.
Iron pyrites.—Con.			Iroquois falls, ABITIBI RIVER.		
Kaministiquia (near).....	129	xi	Character of river near.....	185 A	xiv
Lacloche mts.....	59	R C	tributaries near.....	199 A	xiv
Lake Superior, Caldwell pt.	149	ix	Minor ref. to	180, 181	viii
Jackfish bay	26	R C	Photos of	184, 185	viii
	190	v		230, 231 A	xiv
Lanark co.....	138	R C	Rocks near	193	viii
Larder lake and vicinity.....	220-222	xi		206, 210 A	xiv
	215 A	xvi	Soil from, analysis	246 A	xiv
Mattagami river.	128	iv	character.....	244 A	xiv
Minnitaki lake.....	87	v	Timber near.....	204 A	xiv
	20, 47 A	xv	Waterpower at	193	viii
notes.....	61 A	xv		208, 209 A	xiv
Missinaibi river, Split-rock port- age.....	256	v	lake (GLACIAL).		
Montreal river.....	209 A	xiv	Age of.....	237 A	xiii
Fort Matachewan.....	113 A	xiii	Ancient relics of Indians found on.	230 A	xiii
S. of Coleman tp.....	30 B	xiv	Ironville, ESSEX CO., N. J.		
Nickel lake, R. R. d.....	74	iv	Iron smelting at.....	477	R C
	296	xi	Irvine, Robert	515	R C
Night-hawk river	108 A	xiii	Thomas	48, 50	x
Onwatin lake	204 A	xiii	river, GRAND RIVER.		
Parry Sound, south of.....	100	iv	Guelph formation on.....	121 B	xiii
Partridge-crop lake.....	174	xiii	Irving, Prof. Roland D.		
Plevna (near).....	203	xi	Paper by, on copper deposits of the Keweenaw series	82-88	iii
Port Arthur silver mines.....	54, 55 B	xiv	Ref. to report by, on Penokee iron range	196, 197	x
Three A mine.....	28	R C	Surveys by, Huronian areas N. of Great Lakes ..	158, 168, 170, 171	viii
Pukaskwa river.....	133, 134	viii	Views of, <i>re</i> :—		
Robert bay, Muskoka dist.....	81 B	xiii	break in Huronian.....	185	ix
Round lake, E. of Moss tp. 75, 87, 119		v	copper-bearing rocks of L. Superior.....	134	vi
Schreiber (near), mining....	78, 134	vii	iron ore in Huronian.....	20	R C
Shilton mine	61 A	xvi	origin of Penokee iron ores... 199		x
Steep-rock lake	72, 73 A	xiv	structure of L. Superior basin.	75, 76	iii
Sudbury district.....	16, 158 C	xiv	Work by, on copper-bearing rocks of L. Superior.....	175	i
Bowell tp.....	95 C	xiv		256 A	xiv
crystals	281	xii	T. C.	116	ix
Elsie mine.....	51 C	xiv		142	x
Graham tp.....	142, 425	R C		74	xi
Levack tp.....	434	R C	Washington		
Whistle mine	75 C	xiv	Notes by, on mode of living at Fort William, 1800.....	199	v
Timagami Lake dist.			Irwin—?		
James lake	20, 88 A	xv	Views of, on Canadian and Italian asbestos	97	iii
mining	74 A	xvi	J. J.		
notes by Fraleck ..	165 A	xvi	Oil and gas on farm of, E. Tilbury tp.....	97, 98 A	xvi
parallel with jaspilite.....	173	x	notes	102 A	xvi
Timagami lake.....	56	R C	James		
Wataybeeg river.....	113 A	xiii	Brick-yard of, Norwich.....	86 B	xv
Wild-potato lake (near)	68	v	clay for, analysis	15 B	xv
pyrites, magnetic See Pyr- rhotite.			Isa Mining Co.		
Range railway, MINN.	241	R C	Capital and date of charter.....	25 A	xv
spathic See Siderite.			Isaacson, Isaac	25 A	xiv
specular See Hematite and Specular iron ore.			Isabella Furnace Co.		
Irondale, Bancroft & Ottawa Ry.			Labour employed by, statistics..	370	R C
Purposes of.....	131	R C	gold mine, BAD VERMILION LAKE, R. R. D.		
Ironton, SAUK CO., WIS.			Idle, 1900.....	83	x
Record of iron furnace at.....	338	R C	Notes on, 1899.....	68	ix
Iroquois, MATILDA TP., DUNDAS CO.			lake, MICHIPICOTEN DIV., ALG.		
Limestone at	40 B	xiii		289 A	xiv
beach.					
Hamilton, notes and photo....	28, 29 B	xv			
Ontario, report by Coleman..	225-244 A	xiii			
Trenton, near, altitude.....	222	x			
photo.....	224, 225	x			
Cobalt Silver Mg. Co.					
Capital and date of charter.....	28 A	xvi			

	Page.	Vol.		Page.	Vol.
Iserhoff island , KABENUNG LAKE, ALG.			Islet lake , L. OF THE WOODS, R. R.D.		
Rocks south of, and opposite....	344 A	xiv	Gold mining on.....	176	v
Iserlohn , WESTPHALIA, GERMANY.			Minor ref. to	112	vii
Nickel refinery at.....	175 C	xiv	lake , WANAPITEI RIVER, NIP.		
Ishpeming , MICH.			Gold near	258	vii
Iron at, boring for, cost	232	v	Itacolumite .		
peculiar course of hole.	224, 225	v	Definition of.....	236	vi
Notes by Coleman.....	150-152	ix	Italy .		
Isiah (BIBLICAL).....	166	i	Arsenic mining in.....	101	xi
Island bay , BAD VERMILION LAKE, R. R. D.			production, 1895-99.....	110	xi
Granite near, analysis.....	101	v	Asbestos in.....	246	i
photo.....	64, 65	vi	compared with Cana- dian.....	97	iii
creek , SANDCHERRY RIVER, VERMILION RIVER.			notes by Boyd.....	96	iii
Rocks on.....	68, 69 C	xiv	Iron production of, 1886.....	224	R C
Terrace on	103, 106 C	xiv	Marble of, compared to that of Hastings co.....	80, 81	R C
falls , MATTAGAMI RIVER, ALG.			Mining laws of.....	297, 298	R C
Description of river near.....	121 A	xv	Nickel in auriferous sands of....	151 C	xiv
Granite at, character.....	134 A	xv	coinage in, composition..	184	iv
Photo	129 A	xv	Itch lake , ALG. See Rice lake.		
falls , SEINE RIVER, R. R. D.			<i>ite</i> .		
Gold mining near	67	vii	As a mineral termination.....	448	R C
	92-94	viii	Iturbide , CHIHUAHUA, MEXICO.		
	76-81	ix	Cobalt minerals in	71 B	xiv
	239	xi	Ivanhoe , HUNTINGDON TP., HASTINGS CO.		
	71 A	xiii	Limestone quarry near. See Crookston.		
Mines idle, 1900.....	103	x	Jack, Edward		
Notes on	74	vi	Acknowledgments to.....	4	iii
Photos of	32, 33	vi	Paper by, on moss-litter	139-144	iii
Falls Mines Co.			lake , SEINE RIVER DIST., R. R.D.		
Capital and date of charter	10	ix	Gold mining on and near.....	81	ix
Granite Co.				105	x
Capital and date of charter	24 A	xiii		242	xi
lake , E. OF MOUTH OF ECHO RIVER, ALG.			Lake gold mine , SEINE RIVER DIST., R. R. D.		
Iron ore near.....	188	x	Notes on, 1900.....	106, 107	x
lake , MICHIPICOTEN DIV., ALG.			1901.....	242	xi
Iron formation on.....	178 A	xv	Lake Gold Mining Co.		
lake , NEAR BLACK STURGEON LAKE, TH. B. D.			Absorbed by St. Anthony G. M. Co.	59 A	xv
Contact, Huronian-Laurentian on.	110	vii	Board of Directors.	106	x
lake , ROSSLAND, R. R. D.....	29	iii	Capital and date of charter.....	9	x
of Orleans , St. LAWRENCE RIVER, QUE.			Work by, Sturgeon Lake dist.	148, 149, 256	xi
Anthraxolite in.....	6 Bull.	ii		82	xii
portage , ABITIBI RIVER.				70 A	xiii
Photo of river below.....	184, 185	viii	Jacks, C. B.		
portage , WANAPITEI RIVER, NIP.			Claim of, near Ursa Major mine.	86	x
Limestone at, dolomite.....	82	i	President, Jackfish Bay Mg. Co.	95	viii
notes	83 B	xiii		85	x
river , VERMILION RIVER, NIP.			Jackfish .		
Nickel ore on.....	199 A	xiii	Mattawan river, Montreal river, L. Superior	200	viii
Isle a la Pêche , L. ST. CLAIR, U. S.	108	v	bay , L. SUPERIOR.		
aux Cerfs . See Stag island.			Building-stone on.....	61	R C
de Maurepas . See Michipi- coten island.			Description of, by Coleman.....	84	v
Parisienne . See Parisian isle.			Glacial striae on.....	89	v
Royale , L. SUPERIOR, U. S.			Gold on.....	26, 62, 115	R C
Chlorastrolite on.....	196	ix		112, 113	v
Copper on, native	92	R C	mining, notes by McKellar.	189, 190	v
Keweenaw formation on.....	36	R C	Granite and syenite on, petro- graphical notes.....	103, 104	v
Syncline of	76	iii			
Verte , TEMISCOUATA CO., QUE.					
Peat at	198	ii			

	Page.	Vol.		Page.	Vol.
Jackfish bay, L. SUPERIOR.—Con.			Jackson iron mine, TOWER, U. S.		
Iron ore on.....	23, 145	R C	Jasper in.....	189	x
Road from, to Long lake.....	9	vi	Notes on, by Coleman.....	151	ix
	34	vii	Soap and paint rocks at.....	153	ix
Silver mining on.....	445	R C	oil well, LEAMINGTON.....	116 A	xiv
Rainy lake.....	44	iv	Jacobs, J. A.	81, 83 A	xv
Welcome lake, Nip., photo. 176, 177		vi	Robert.....	83 A	xv
Windermere lake.....	201	viii	Jacobs claim, COLEMAN TP., NIP.		
Jackfish, JACKFISH BAY, L. SUPERIOR.			See also Kerr Lake Mg. Co.		
Country near, description.....	84	v	Diabase in.....	29 B	xiv
Gold mining near, Inspector's			Jacobsen, Charles	56 A	xiii
report on:—			Jacob.....	56 A	xiii
1896.....	265, 266	vi	Jacques—?		
1897. See also Empress g.m. 80-82		vii	Acknowledgments to.....	148	iii
1898.....	95	viii	Views of, on nickel-steel armour.	160	iii
1899.....	82-84	ix	Jaffray, Robert	29	iv
1900.....	85-87	x	tp., R. R. D.		
Iron mining near, 1903.....	74 A	xiii	Gold mining in.....	49	vi
Rocks at.....	104	v		57	vii
	147	vii		37	ix
Bay Syndicate Mg. Co.			notes by Blue.....	185, 186	v
See also Ursa Major mine.			See also Black Sturgeon g. m.		
Capital and date of charter.....	10	vii	El Diver g. m.		
Work by, 1898.....	95	viii	Rajah g. m.		
gold mine. See Empress gold			Scramble g. m.		
mine.			Jalisco state, MEXICO.		
lake, MICHIPICOTEN DIV., ALG.			Cobalt ores in.....	71 B	xiv
Description of.....	294 A	xiv	Jamaica.		
Iron ore near.....	160	ix	Nickel coinage in.....	161	ii
lake, MOSS TP., TH. B. D.				244	ii
Description of, by Blue.....	121	v	James, Alfred	182, 184	iii
Gold on and near:				62	ix
discovery.....	114	R C	E. H.	99	x
notes by Bell.....	25	R C	H.		
See also Huronian g. m.			Brick-yard of, Delaware.....	79 B	xv
Rocks on.....	76	v	clay for, analysis.....	14 B	xv
Route from, to Shebandowan lake. 125		v	Henry	228	i
(OR HUB) lake, W. OF STUR-			Joseph		
GEON LAKE, TH. B. AND R. R.			Actinolite mining by.....	98	viii
DISTS.....	147	xi		27	xi
Lake Mining Co.				26	xii
Capital and date of charter.....	10	vii		12, 92 A	xiii
Organization of.....	76, 77, 123	v	exhibits at Pan-American Exh.	85	xi
Work by, near Jackfish bay....	135	vii	notes by himself.....	87	R C
See also Huronian g. m.			stopped by blowing out of dam.	87 A	xv
Jackland, J.			Arsenic on land of.....	102	xi
Owner, Gibson mica mine.....	291	xi	mining.....	288	viii
Jack's tin. See Blueite.				56	xii
Jackson, Charles	207	iv	notes by Miller.....	200	xi
	33	vii	O. S.		
Dr. Charles			Analysis by, of:—		
Views of, on origin of copper S.			Cobalt ores.....	99 A	xiii
of L. Superior.....	171	ii		21 B	xiv
E. Young	139 A	xiv	ilmeneite, Baie St. Paul, Que..	231	vii
George			Examination by, of nickel ore		
Serpentine mining by, near Gan-			from Glamorgan tp.....	231	vii
anoque.....	297	xi	S. S.	138	x
	13 A	xiii	T.	51 A	xiv
George W.			W. B.		
Discoverer of Kirkwood nickel			Brick-making by, Mitchell..	94 B	xv
mine.....	36	viii	W. E.	130	x
H. E.	33, 35 A	xvi	William	251	vi
Joseph	30	vii		68	viii
Samuel	104	ix	arsenic mine, ELZEVR TP.,		
	260	xi	HASTINGS CO.		
Thomas	89 A	xv	Notes on.....	102, 200	xi
W. Howard	160 A	xiv	Photo of.....	112, 113	xi
Iron Co.					
Cost of iron produced by.....	336	R C			

	Page.	Vol.
James bay, HUDSON BAY.		
Calcareous mud deposits in.....	252	v
Climate of.....	106	iv
Description of, by Bell.....	130	iv
Fisheries of.....	133	iv
Fossil-shells from, list of.....	143 A	xiii
Harbours of.....	128, 129	iv
Indians on, notes.....	134	iv
Minerals S. of, possibility of....	69	RC
Railway to, need of.....	56, 57	RC
Rising of, notes by Parks.....	191	viii
Rocks on and near.....	86	i
Devonian.....	194	viii
Huronian.....	17	RC
limestone, bituminous.....	128	iv
Corniferous.....	205	v
32 B	xiii	
Niagara.....	44	RC
31 B	xiii	
Palæozoic.....	5, 18	RC
104	iv	
Soil south of.....	176 A	xiii
agricultural.....	108	iv
notes by Borron.....	115	iv
Timber near.....	120, 121	iv
bay, PIPESTONE LAKE, R. R. D.	61	v
Bay Mining Co.		
Line of, to Moose mt.....	39 A	xvi
lake, TIMAGAMI DIST., NIP.		
Iron pyrites mining on.....	20, 88 A	xv
<i>See also</i> Harris pyrites m.		
Mispickel mining on.....	73 A	xiv
Pyrrhotite from, analysis.....	180	x
73 A	xiv	
tp., NIP.		
Cobalt and silver in..	45, 56 A	xvi
discovery.....	8 A	xvi
Jameson, R. W.	124	vii
W. B.	79	xi
Jamesonite (FEATHER ORE).		
Barrie tp.....	200	ix
Hardness of.....	202	vi
Madoc tp.....	161 A	xvi
Notes on, by Goodwin.....	209	vi
Specific gravity of.....	202	vi
Jamieson, J.	90 A	xv
J. A.		
Lime producing by estate of,		
Milton.....	28	xii
quarry, NEAR RENFREW.		
Analysis of limestone from.	105, 106 B	xiii
tp., NIP.		
Soil in.....	127 A	xv
Janes farm, THIBURY OIL FIELD.	94 A	xvi
Japan.		
Brimstone from, for sulphuric		
acid.....	179	RC
Nickel coinage in.....	161	ii
Jakes, W. H.		
Notes by, on nickel-steel for ord-		
nance.....	139	ii
Paper by, on value of nickel-steel		
for armour.....	194-198	iv
Jardine, Alexander		
Experiments by, on moss-litter..	23	vii
Jarecki Manufacturing Co.	119	ii
Jarman, Z. H. <i>See</i> Jarman pyrites		
mine.		

	Page.	Vol.
Jarman pyrites mine, NEAR BAN-		
NOCKBURN, HASTINGS CO.		
Bog-iron ore in, changed to iron-		
pyrites.....	42 A	xv
Idle, 1906.....	79 A	xvi
Mining class at.....	39, 42 A	xv
Notes on, 1901.....	295	xi
1902.....	139	xii
1903.....	95 A	xiii
1904.....	78 A	xiv
1905.....	94 A	xv
Jarvis, Æmilius		
Director, Hamilton Iron and Steel		
Co.....	46	v
John		
Brick-making by, Stratford.....	93 B	xv
Peter	33, 35 A	xvi
Samuel	178	ii
Tennyson D.		
Report by, on agricultural possi-		
bilities of Abitibi dist.....	121-131 A	xiii
ref. to.....	117 A	xv
Work by, 1903.....	xi, 104 A	xiii
Adams & Co.	119	ii
Jarvis, WALPOLE TP., HALDIMAND CO.		
Gas piped to.....	23 A	xv
island, L. SUPERIOR.		
Barytes on.....	177	i
Examined by Montreal Mg. Co.	139	vi
Notes on, by McKellar.....	198	RC
Rocks on, notes by Coleman....	180	ix
Worked by Montreal Mg. Co....	195	RC
Island Co.	196	RC
lake, E. OF MATTAGAMI RIVER,		
ALG.		
Beaver dams near.....	127 A	xiii
Description of.....	105 A	xiii
Dolerites on.....	116 A	xiii
Porphyry near.....	120 A	xiii
Sericite-schist on.....	120 A	xiii
tp., ALG.		
Iron in.....	204, 315	xii
mining. <i>See</i> Breitung Iron Co.		
Williams mine.		
Jasenitzer peat-digger.	209	xii
Jasper.		
Associated with iron ores, occur-		
rences.....	200, 201	x
Black bay, L. Superior.....	100	i
Blanche River region.....	221, 230	xi
Bruce mines, north of.....	72	i
Definition of.....	166	x
Description of.....	536	RC
224	vi	
200	ix	
Exhibit of, at World's Fair. 186,	187	ii
Huronian rocks, with iron.....	20	RC
Labrador, with iron.....	202	x
Lake Huron, north of (pebbles),		
notes by Coleman.....	162	viii
Long island, Hudson bay.....	93	v
Matawin range, with iron. 80, 131,	132	v
river, ".....	163	ix
Mesabi iron range.....	92	v
Michigan iron range.....	152	ix
Michipicoten div., with iron... 11 Bull.	iii	
Batchawana bay.....	189, 190	x
Goulais bay.....	72	i
notes by Coleman.....	183	ix

	Page.	Vol.		Page.	Vol.
Jasper. — <i>Con.</i>			Jeffry mine, FARADAY TP., HASTINGS		
Moss tp.	145	R C	co.		
Night-hawk lake	187	x	Mispickel in.	198	xi
Nipigon Lake dist., with iron. 213, 214	311	x	assay.	102	xi
111-122, 143, 147 A	xvi		Jelley, J.	104	vii
Windigokan lake	145 A	xvi		104	viii
Rainy River dist., with iron. 129, 130	200	x		115	ix
Hunter island.	74	v	Jemerays, M. de la		
Lac Seul, pebbles.	92	v	Fort St. Pierre built by.	162	v
notes by Coleman.	174, 184	vi	Jenckes, J. M.	52	ix
Shining-tree lake.	187	x	S. W.	52	ix
Sudbury dist., with iron.	124	vii	Machine Co.	168-170	iv
Taché, near.	57	R C	Jenitz, Hans		
Timagami Lake region.	165, 166	x	Cobalt works of, Schneeberg.	75, 76 B	xiv
with iron.	186	x	Jenkins, Charles		
Wanapitei lake, W. of, with iron.			Feldspar producing.	38	xii
conglomerate.				21, 91 A	xiii
Blanche river and vicinity.	174, 176, 179	xii		19 A	xiv
Bruce mines.	177	ii		19 A	xv
boulders.	156	viii	suspended.	101 A	xv
Description of.	158, 159	viii	See also Harris f. m.		
Kenogami Lake dist.	230	xi	prospecting.	82 A	xiv
Lake Huron.	135	iii	Notes by, on oil trade.	27	v
Trout lake, N. of Echo lake, Alg. 124		viii		17	x
lake, HUNTER ISLAND.				40	xi
Jasper ores on.	200	x	Norman Stuart		
Jaspilite.			Acknowledgments to.	158	x
Boston tp.	262-267 A	xiv	Manager for Great Northern Co..	152	x
Definition of.	166	x	Onaping Lake Mg.		
Iron lake, Michipicoten div.,			Co.	157	x
analyses.	320 A	xiv	Capt. Vaughan	143	ii
Shining-tree lake, notes. 178, 182, 185		x	William		
Timagami dist.:—			Iron ore exhibited by, Chicago. 78, 79		ii
photos.	176, 177	x	Lodestone found by, near Madoc. 82		ii
	336, 337	xii	Rocks in iron claim of.	57	ii
coloured.	Frontis.	Vol. x	Jenks, C. N.	249	vii
report by Miller.	167-180	x	Jenny Leigh gold mine, ANDREW		
tests on, with Wetherill separ-			BAY, L. OF THE WOODS.		
ator.	336	xii	Notes on, 1897.	112	vii
Jawbone creeks, ABITIBI RIVER.			"Jenny Lind" ss.	84	viii
Notes on, by Parks.	182	viii	"Jerker" system, for oil wells...	159	R C
Jay, Canada			Jermyn st., LONDON, ENG.	493	R C
Abitibi dist.	126 A	xiii	Jerusalem gold mine, NEAR MOOSE		
JB 1 silver loc. See McKinley-Dar-			BAY, L. OF THE WOODS.	21	iii
ragh mine.			JES 38, 39, 41, 42 gold locs. See		
6 silver loc., COBALT, NIP.			Nora gold mine.		
Photos of.	26, 34 B	xiv	54, gold locs. See Tycoon gold		
Strike of veins in.	26, 36, 37 B	xiv	mine.		
7 silver loc. See New Ontario			93, 110 gold locs. See Nina		
silver mine.			gold mine.		
AND JC Mining Development			154 gold loc., SCOTTY ISLAND,		
and Smelting Co.			L. OF THE WOODS.	42	ix
Capital and date of charter.	26 A	xv	Jessie Fraser Copper Mg. Co.		
66 gold loc. See Polaris gold			Capital and date of charter.	30 A	xvi
mine.			Jessop, Thomas.	247	i
79, 80 gold locs. See Nora gold			and Sons, William		
mine.			Steel works of, notes by Tupper. 178 c		xiv
110 gold loc. See Scotty Island			rapid, BONNÉCHÈRE RIVER.		
gold mine.			Marl near.	107 B	xiii
Jean Petit rapid, ABITIBI BRANCH OF			tp., ALG.		
BLANCHE RIVER, NIP.			Soil in.	127 A	xv
Description of, by Miller.	224	xi	and timber.	139 A	xv
Jeffery, George E.	48-50	x	Jessop, Alexander R.	224	vii
Jeffries, William			C. W.	74, 75 A	xiii
Nickel refining process patented			Jewell, Fulton B.	71	viii
by.	220	ix			

	Page	Vol.
Jex & Co.		
Brick yard of, Cobourg.....	85 B	xv
J. G. Gibson Marble and Granite Co.		
Capital and date of charter.....	11	xi
Jimmy Kash lake, MICHIPICOTEN DIV., ALG.		
Description of.....	289 A	xiv
Minor ref. to.....	285 A	xiv
Rocks in.....	348 A	xiv
JO 4 gold loc. See Golden Star mine.		
13 gold loc., NEAR WILD POTATO LAKE, R. R. D.	68	v
	116	vi
41 Gold Mining Co.		
Capital and date of charter.....	8	viii
Work by, 1898.....	271	viii
114-116 gold locs. See Ontario Prospecting, Mg. and Dev. Co.		
Joachimsthal, BOHEMIA.		
Cobalt at.....	6, 51, 85 B	xiv
Minerals of, same as those in Cobalt dist.....	12 B	xiv
rare.....	61 B	xiv
Job (Biblical)	168	i
Jobson, C. J. R.	186, 196	viii
Jocko river, OTTAWA RIVER.		
Agricultural land along.....	58	R C
Joes (OR MARION) lake, WISNER TP., ALG.		
Minor ref. to.....	192 A	xiii
Moraine near.....	102 C	xiv
Rocks on and near.....	202 A	xiii
	185	x
	72, 81 C	xiv
conglomerate.....	94 130, 131 C	xiv
diabase dike.....	85 C	xiv
greenstone.....	206	x
nickel-bearing eruptive.....	211 A	xiii
norite.....	214 A	xiii
petrography.....	295	xii
Johanson, John	255	ii
John, David	52	ix
	77	x
	51 A	xvi
Carruthers Science Hall, KINGSTON.		
Photo of.....	192	vi
Dwyer Gold Mg. Co.		
See also Dwyer, John.		
Dwyer gold mine.		
Capital and date of charter.....	10	vii
"John Haggart" ss.	193	iii
John Sykes Mining and Milling Co.		
Accident at mine of.....	43	x
Capital and date of charter.....	10	ix
Depth of shaft sunk by.....	35	ix
Work by, Minnitaki lake.....	71, 72	viii
	64	ix
	74	xi
Johnes, E. R.	74	xi
Johnny lake, NIP.	35 B	xiv
Johns, David	200, 201	iv
I. H.	104	viii
W. H.	16, 82	xii
Johnsen, H.	167	iii
Johnson, A.		
Mining by, Minnitaki lake.....	70	viii

	Page.	Vol.
Johnson, A.		
Mining by, Michipicoten div....	104	viii
	66	xii
Albert		
Killed at Big Master mine.....	39-41 A	xiii
Albert		
Foreman, Sultana g. m.....	179, 238	v
	249, 250	vi
	43, 50	viii
	41	ix
August	31	vii
Axel		
Killed at Copper Cliff m..	201, 210, 244	iv
C. J.		
Galena mining by, Dorion tp....	38	R C
Frank	100	ix
G. R.		
Ref. to work by, on magnetic concentration of iron ores.....	337	xii
Gus	46, 48, 50	x
Henry	82	ii
J.		
Brick-making at, Monkton.....	94 B	xv
Pembroke.....	96 B	xv
Prof. J. B.		
Formulae by, for steel and concrete.....	175 A	xiv
J. Bristol	54	xi
J. H.	104	viii
L. H.	243	i
Samuel W.		
Notes by, on processes for peat drying.....	194	i
on mode of burning peat.....	206	i
Tests, by, on peat as a fuel.....	200	ii
T.	104	vii
	104	viii
	87	ix
W. A.		
Sir William		
Interested in copper mining, L. Superior.....	209	v
apatite mine, LOUGHBORO TP., FRONTENAC CO.		
Idle, 1892.....	251	ii
Operating, 1891.....	240	i
tp., ALG.		
Copper mining in. See Stobie copper mine.		
Trap rock quarries on islands S. of.....	13	v
Johnston, A.	116	ix
Anton	43	x
E. J.	74	xi
	66	xii
J. (CALABOGIE)	55, 56	xii
J. (SULTANA MINE)	48 A	xiv
	57 A	xv
J. A.	128	xi
J. B.	113	ix
J. F.	104	vii
J. H.		
Gold mining by, near Wawa.....	104, 194	vii
J. W.		
Gold mining by, near Michipicoten.....	202	vii
Iron mining by, Gros Cap.....	145	viii
Jacob		
Killed at Sault Ste. Marie.....	29 A	xv

	Page.	Vol.
Johnston, Jessie A.	104	vii
John (1809).		
On prospects of Sault Ste Marie..	198	v
John (1905).....	30, 33-35	A xv
John W.		
Gold mining by, Michipicoten		
div. (1871).....	11 Bull.	iii
	195	vii
L. J.		
Notes by, <i>re</i> gypsum in Oneida tp.	122	R C
R. A. A.		
Limestone analysis by, Barrie tp.	45 B	xiii
Kingston		
(near).	44 B	xiii
Mackay		
lake...	38 B	xiii
Ramsay		
tp.....	71 B	xiii
T.	116	ix
P. A. and Co.		
Quarrying by, Niagara tp.....	95	i
	73, 74 B	xiii
iron mine, MICHIPICOTEN DIV.,		
ALG.		
Ferriferous sandstone in.....	157	ix
Johnstone—?		
Exploratory work by, near Michi-		
picoten.....	253	v
Johnstown, CAMBRIA CO., PENN.		
Iron from, quality.....	402	R C
furnace.....	125, 127	ii
Jokela, Jan.	33 A	xv
Jokinen, John	39, 41 A	xiii
Joliet Steel Co.		
Analysis by, of iron ore, Blairton.	130	R C
Joliette co., QUE.		
Grenville series in.....	11	R C
Jollineau, Stephen	121, 136	viii
Jonah (BIBLICAL)	166	i
Jones, A. S.	104	vii
C. C.		
Notes by, <i>re</i> hematite near Wylde.	138	xi
C. H.	110	ix
Clarkson		
Part owner, Wendigo gold mine.	44	ix
	71	x
Ephraim		
Iron smelting by, Lyndhurst,		
1813.....	319	R C
H.	52, 53 B	xiii
H. C.		
Evidence by, <i>re</i> mining regula-		
tions.....	316	R C
Prof. J. V.	507	R C
James		
Manager, Stoness mica mine....	128	xii
Owner, O' Mara mica mine.....	194	iii
John		
In Marmora iron foundry, 1826..	17	ii
John M.		
Acknowledgments to.....	94	xii
Captain, Bully Boy g. m.....	51	ix
Regina g. m.....	92, 253	vi
	56	viii
	73	x
	255	xi
Manager, Stobie mine.....	183	iii

	Page.	Vol.
Jones, Pete		
Jasper ore reported by, Point		
Aux Mines.....	190	x
R. R.		
Superintendent of smelter, Port		
Arthur.....	61 A	xv
	61 A	xvi
Thomas R.		
Manager, Buffalo silver m.,		
Cobalt.....	78 A	xv
Sunbeam g. m.....	81	xii
	71 A	xiii
	38, 41 A	xiv
	50 A	xv
Tip-top copper m....	275	xi
	56 A	xiii
	56	xii
W. M. H.		
and Laughlins. <i>See</i> American		
Iron Works		
A. O. & Co.		
Analysis of shale used by,		
Zanesville.....	119	iii
lake, SEINE RIVER DIST., R.R.D.	127	vii
mill, BOSANQUET TP., LAMBTON		
CO.		
Section of strata at	68 B	xiii
nickel mine, NEAR COPPER		
CLIFF, NIP.		
Notes on, 1896.....	272	vi
range, KEPPEL TP. GREY CO.		
Cement works in.....	17 A	xiii
<i>See also</i> Colonial Portland Cem-		
ent Co.		
Jonkoping, SWEDEN.		
Tests at, on moss-litter.....	140	iii
Jordan, D.		
Brick-yard of, Chatham.....	72 B	xv
Jordan, LOUTH TP., LINCOLN CO.		
Iroquois beach at.....	228 A	xiii
Joseph Laduc Gold Mg. Co.	10	viii
Powers Syndicate.		
Copper mining by, Mississagi		
river	18	viii
Josephine iron mine, S. OF GOETZ		
LAKE, MICHIPICOTEN DIV.		
Boring in, 1903.....	47 A	xiii
1905.....	71 A	xv
plant purchased for.....	42 A	xiii
Cavern near.....	171	xi
Minor ref. to.....	20	xii
Notes on.....	62, 63	xii
Operating, 1901.....	71, 95	xi
Ore body of, extent.....	103, 104	xii
Prospects of, 1899.....	195	x
Rocks near.....	160, 161	xi
conglomerates	203	x
mt., NEAR PIGEON POINT,		
MINN.		
Beaches on.....	175	ix
"Josie" ss.	57	ix
	59	xii
	75	viii
Joslin, F. M.	507	R C
Jowell, Albert A.		
JS 14 silver loc. <i>See</i> La Rose mine.		
"Jubilee" ss.	43 A	xv
Jubilee gold mine, TRAFALGAR BAY,		
ANZHEKUMMING LAKE, R.R.D.		
Notes on, 1897.....	76, 122	vii

	Page.	Vol.
Jubilee gold mine, S. OF WAWA LAKE, MICHIPICOTEN DIV.		
Notes on, 1898.....	145	viii
Work at, 1897.....	100	vii
1898.....	102	viii
1899.....	114	ix
Mining Co.		
Capital and date of charter.....	9	xii
Work by, Kajagogamog lake....	118	vii
Judd, J. W.		
Notes by, on corundum in Burma.....	229, 231, 234, 241	viii
Judge—?	214	xi
Frank	31 A	xv
mills gold claim, NEAR MOORE BAY, L. OF THE WOODS.....	21, 25	iii
Judith mt., FERGUS CO., MONTANA.		
Analysis of tinguaitite-porphyr from.....	189	ix
Rocks in, like heronite.....	190	ix
Judson, J. N.	16 C	xiv
Julia bay, MANITOULIN ISLAND, ALG.		
Hudson River formation on.....	77 B	xiii
river, L. SUPERIOR.		
Character of.....	284 A	xiv
Cross section of shore near....	336, 337 A	xiv
Iron bearing rocks near: appearance favourable.....	339 A	xiv
notes by J. M. Bell.....	333-335 A	xiv
Julian landing, STONY LAKE, PETER- BORO CO.		
Rocks at.....	210, 213	viii
Jump Over falls, MATTAGAMI RIVER, ALG.		
Country E. of, description.....	146 A	xv
Description of river near.....	123 A	xv
Rocks at.....	134 A	xv
Soil from near, analyses.....	152-154 A	xv
Waterpower of.....	129 A	xv
Jumper island, St. LAWRENCE RIVER.		
Granite quarrying on.....	296	xi
<i>Junco hiemalis.</i> See Snow-bird, black		
Junction lake, MICHIPICOTEN DIV., ALG.		
Iron formation near.....	178, 204 A	xv
Juneau, ALASKA.		
Wire-rope tramway at.....	353	R C
Juneberry. See Shad-bush.		
Junge Zeche vein, SCHNEEBURG, SAXONY.....	89, 90 B	xiv
Juniata steel works, PITTSBURG.		
Labour employed at, statistics.	370	R C
Juniper.		
Michipicoten div.....	296 A	xiv
Moose River basin.....	176 A	xiii
<i>Juniperus communis.</i> See Juniper.		
Jurassic system.		
Definition of.....	536	R C
Jury copper mine, PATTON TP., ALG.		
Development work at.....	70 A	xvi
Shipping ore, 1906.....	41 A	xvi
Jury Copper Mines.		
Capital and date of charter.....	30 A	xvi

	Page.	Vol.
K 61-64 copper loc. See Tip-top copper mine.		
65 copper loc., ROUND LAKE, TH. B. D.....	75, 118	v
70, 76 gold locs. See Gold Hill mine.		
101 gold loc., JAFFRAY TP., R. R. D.....	174	v
223 gold loc. See Ferguson gold mine.		
231 gold loc. See Manhattan gold mine.		
157 island, L. OF THE WOODS, R. R. D.....	104	vi
Kaar, John		
Brick-yard of, Brownsville.....	86 B	xv
Kabagukski (MUD) lake, ANZHEKUM- MING LAKE, R. R. D.		
Gold mining near.....	85-87	vi
	77	vii
	68 A	xiii
See also Little Master gold mine.		
Kabakishewishiwan falls, NETTO- GAMI RIVER.		
Description of.....	137 A	xiii
Diabase-porphyr from, petro- graphy.....	141 A	xiii
Kabaskong (INDIAN).		
Hammond gold reef found by...	64	vii
Gold Mining Co.		
Capital and date of charter.....	10	vii
Work by, Seine River dist.....	54	vi
Kabenung hills, MICHIPICOTEN DIV., ALG.		
Altitude of.....	282 A	xiv
lake, MICHIPICOTEN DIV.		
Brulé patches on.....	296 A	xiv
Canoe route to.....	292, 293 A	xiv
Description of.....	287 A	xiv
Minor ref. to.....	285 A	xiv
Rocks on and near		
302, 304, 314, 315, 344, 348, 351 A	xiv	
Iron formation.....	329, 330 A	xiv
See also Magnetic pt.		
Kabetachewan (OR LONG) rapid, MAGPIE RIVER, ALG.		
Description of river near.....	286 A	xiv
Huronian rocks on.....	348 A	xiv
Kabinakagami river, ALBANY RIVER.		
Forest fire on.....	177 A	xiii
Kaboosa, George	123	viii
Kagawong lake, MANITOULIN ISLAND.		
Rocks on.....	78 B	xiii
Waterpower on.....	80 B	xiii
Kagegetechinuk, NETTOGAMI RIVER, ALG.	137 A	xiii
Kahn concrete system.		
Description and illustration of...	179 A	xiv
Kahwukekamastik river, FRENCH RIVER, MOOSE RIVER.....	192	viii
Kaiser Josef shaft, JOACHIMSTHAL, BOHEMIA.....	63 B	xiv
Kajagogamog lake, L. OF THE WOODS DIST., R. R. D.		
Notes on, by Coleman.....	118, 119	vii

	Page.	Vol.		Page.	Vol.
Kakabeka falls, KAMINISTIKWIA RIVER.			Kaministikwia, TH. B. D.		
Notes on.....	133	vii	Iron ore at.....	129	xi
Photo of..... Facing	124	vii		309	xii
Pyrites mining near, 1900... 107,	108	x	Kalinite near.....	194	ii
1901.....	129	xi	Lead at.....	194	ii
Rocks at and near.....	129	vi		201	xi
Animikie.....	67	R C	lake, TH. B. D.		
and Huronian....	129	xi	Beaches on.....	175	ix
Stratified deposits near.....	146	xi	river, TH. B. D.		
Waterpower of.....	133	v	Bridge across, built by Govt....	9	vi
plant.....	13	A XV	Forest fires along.....	205	v
Kakagi (Crow) lake, S. E. OF SABAS-KONG BAY, L. OF THE WOODS.			Fort at month of.....	197	v
Area and depth of.....	181, 203	v	Iron ore on..... 22, 68,	145	R C
Beauty of.....	203	v		88	i
Gold mining on. <i>See</i> Gold Sun mine.			evidence before R. C.....	61	R C
Notes on, by Coleman.....	89	vi	notes by Bell.....	69	ii
Water of, character.....	185	v	<i>See also</i> Kakabeka falls.		
rapid, MISSINAIBI RIVER, ALG.	195	viii	Minor ref. to.....	202	v
Kakanaka lake, W. OF KAPISKASING LAKE, ALG.	138	ix	Nomenclature.....	198	v
Kaladar station, KALADAR TP., AD-DINGTON CO.			Rocks on and near.....	129	vi
Laurentian hills near, character.	39	A XV		129, 130	xi
and Angelsea Mg. and De-velopment Co.			Animikie.....	32	R C
Capital and date of charter.....	9	viii	trap.....	37	R C
Kaladar diamonds. <i>See</i> Spinel, black Mining Co.				15	v
Capital and date of charter.....	10	vii	Stratified deposits on.....	146	xi
tp., LENNOX CO.			Waterpower on.....	133	v
Actinolite in.....	192	ix		133, 252	vii
	27	xi	plant.....	13	A XV
notes..... 91, 92		iii	Kaministiquia Power Co.		
by James.....	87	R C	Work by, 1905.....	13	A XV
<i>See also</i> Actinolite, Ont..			Kamiskotaia lake, COFFEY RIVER, MATTAGAMI RIVER.		
Cyanite in.....	237	vii	Description of, by Kerr.....	119, 120	A XV
	200	ix	Hematite near.....	130, 133	A XV
Gold in..... 28, 111, 112		R C	Rocks near.....	132	A XV
	199	ix	Soil from, character and analysis.		
mining, 1902.....	112	xii		151-154	A XV
Rocks in, notes by Miller. 200-202,	207	xi	Trees on and near.....	139, 140	A XV
Steatite in.....	210	ix	river, MATTAGAMI RIVER, ALG.		
Talc in..... 99, 101		iii	Description of... ..	128	ix
	210	ix	Width of.....	188	A xiv
Kalevala Gold Mg. Co.			=Sagaigan river. <i>See</i> Coffey river.		
Capital and date of charter.....	10	ix	Kamshogocka lake, MICHIPICOTEN DIV., ALG.		
Kalinite (POTASSIUM ALUM).			Notes on, by J. M. Bell....	294, 295	A xiv
Kaministikwia.....	194	ii	Kanagushka (ITCH) lake, ALG. <i>See</i> Rice lake.		
Slate river.....	200	ix	Kanakas.		
Kallio, Jacob.. 39, 41		A xiii	As miners in New Caledonia. 148, 149		ii
Kalmia (LAUREL).			Kanamacosenceha lake, W. OF MATTAGAMI LAKE, ALG.....	130	ix
On peat bogs.....	139	iii	Kane, Sir Robert		
" <i>angustifolia.</i>			Notes by, on peat in Ireland. 192, 202		i
Abitibi Lake dist.....	241	A xiv	co., PENN.		
Mattagami valley.....	150	A XV	Natural gas in.....	152	R C
" <i>glauca.</i>			mine, HUNTINGDON TP., HAST-INGS CO.		
Abitibi Lake dist.....	241	A xiv	Calcite in.....	195	ix
Mattagami valley.....	150	A XV	Kanonjapownakoka lake, NIVEN'S BASE LINE, ALG.....	136	ix
Kames.			Kansas city, MONTANA, U.S.		
<i>See also</i> Eskers.			Brick pavements in.....	108	iii
Definition of.....	537	R C	Paving clay from, analysis.....	120	iii
Sudbury, near.....	102	C xiv	state, U. S.		
			Shales of, analysis.....	120	iii

	Page.	Vol.		Page.	Vol.
Kaolin (CHINA CLAY),			Kashmir.		
Abitibi river.....	4, 173	i	Sapphires of	230, 231	viii
Annaberge, Saxony.....	61	B xiv	Kashwakamak (OR LONG) lake,		
Composition of.....	225	vi	MISSISSIPPI RIVER, ONT.		
Definition of.....	537	R C	Dikes on.....	219	v
Hamilton.....	78, 86	R C	Portages on.....	218	v
Hardness of.....	202	vi	Silver mining near. See Barrie		
Middlesburg, S. Africa, gold in..	70	B xiv	silver mine.		
Missinaibi river.....	70	R C	Kasinggekechewan rapid, GROUND-		
	4, 173	i	HOG RIVER, ALG.....	133	ix
	127	iv	Kaskemene-Powatik rapid, GROUND-		
	160	A xiii	HOG RIVER, ALG.....	132	ix
at World's Fair.....	189	ii	Kasshabog lake. See Koshkabogamog		
Moose river.....	202	vi	lake.		
Specific gravity of.....	202	vi	Kasskulton, Louis.....	34, 35	A xvi
Uses of.....	225	vi	Kasson, B. Z.....	106	x
Wabiskagami river, notes and				148	xi
analysis.....	160	A xiii	Katherine lead-zinc mine, LAKE		
Kaolinic clays.			TP., HASTINGS CO.		
Abitibi dist., occurrences.....	xii	A xiii	Boring in, with diamond drill. 58, 60		xi
Kaolinite.			Notes on, 1900.....	129, 130	x
Occurrences of.....	200	ix	1905.....	91	A xv
Kapaskasi. See Kapiskasing.			Rocks of and near.....	207	xi
Kapemichikama (OR CROSS) lake,			diorite-gneiss.....	199	xi
HEADWATERS MATTAGAMI			Work at, 1906.....	79	A xvi
RIVER, ALG.....	250	v	Katossin, David See Katossin iron		
	131	ix	claims.		
Kapikokonaka lake, BLANCHE RIVER,			iron claims, IRON RIVER, MICH-		
NIP.			IPICOTEN DIV.		
Description of.....	174	xii	Appearance of, favourable, 1904.	339	A xiv
Kapinchigama lake, MICHIPICOTEN			Jaspilite in.....	309	A xiv
DIV., ALG.			Minor ref. to.....	314	A xiv
Biotite schists on.....	306	A xiv	Notes on, by J. M. Bell.		
Minor ref. to.....	286	A xiv	321, 322, 333, 336		A xiv
Shape of.....	293	A xiv	Photo of.....	322	A xiv
Kapiskasing lake, NIVEN'S BASE LINE,			Rocks near.....	316	A xiv
ALG.			Katzenbach lake, MICHIPICOTEN DIV.		
Minor ref. to.....	144	A xiii	Absence of fish in.....	297	A xiv
Notes on, by Parks.....	137, 138	ix	Rocks on and near.....	349, 354	A xiv
Soil and timber near.....	114	iv	Kawanaska river, BLACK RIVER,		
	176, 177	A xiii	ABITIBI RIVER.		
river, TROUT RIVER, KAPIS-			Notes on, by Bolton.....	185	xii
KASING LAKE, ALG.			Kawacagoma lake, SOUTHEAST ALG.		
Minor ref. to.....	136, 142	ix	See Round lake, near Wene-		
Notes on, by Parks.....	137	ix	begon river.		
Kapismapenaceke lake, SPANISH			Kawashaigamog (CLEAR WATER)		
RIVER.			lake, MCKENZIE TP., P.S.D.		
Rocks near.....	126	ix	Limestone in.....	93	B xiii
Karcona, Peter.....	47, 48	xii	Kawashegamuk (LONG) lake, S. E.		
Karoo (KIMBERLEY) shales.....	123	ix	OF DINORWIC LAKE, R.R.D.		
Kash lake. See Jimmy Kash lake.			Gold mining on.....	63	ix
Kashabowi, NEAR SHEBANDOWAN				256	xi
LAKE, TH. B. D.			Map of.....	80	vii
Copper mining near. See Tip-			Kawaskitoukik rapid, NETOGAMI		
top copper mine.			RIVER, ALG.....	137	A xiii
lake, NEAR SHEBANDOWAN			Kawawiagamog river. See Maligne		
LAKE, TH. B. D.			river.		
Description of.....	117	v	Kawawiagamog lake, E. OF MOSS		
Distance from, to Huronian g m.	125	v	TP., TH. B. D. See Round lake.		
Length of.....	117	v	river, CROSS LAKE, MOSS TP.,		
Notes on, by Blue.....	116, 117	v	TH. B. D.		
Rocks on, gneiss.....	95	v	Description of, by Blue.....	120	v
Laurentian.....	74	v	Road near, description.....	121	v
photo.....	96	v	Kawchewahnook lake, OTONABEE		
Kashabowie Mining Co.			RIVER.		
Capital and date of charter.....	10	vii	Limestone on.....	97	B xiii
Kashegogamog lake, L. OF THE					
WOODS, ONT.					
Gneiss from, petrography.....	146	vii			
14 M.I.					

	Page.	Vol.		Page.	Vol.
Kawin station, SEINE RIVER DIST., R. R. D. Gold mining near. <i>See</i> Sunbeam mine.			Keewatin formation.—Con.		
Kawukekamastuk river, FRENCH RIVER, MOOSE RIVER. Gypsum at mouth of.....	158	A xiii	Cobalt dist.....	27	B xiv
Kay, George F. Prospecting by, Sudbury dist....	289	xii	Bucke tp., photo.....	42, 43	B xiv
Report by, on Atitibi region. 104-121		A xiii	description.....	40	B xiv
ref. to... 240, 248, 249		A xiv	notes and photos.....	42-46	B xiv
117, 118		A xv	Comparison of, with Huronian..	158	viii
Work by, 1900.....	151, 158, 186	x	L. of the Woods, photo of, in		
1903.....	xi	A xiii	gneiss.....	80	vi
Kearney, PERRY TP., P. S. D. Rocks in vicinity of.....	171	ix	Quartz island, near.	119	vii
Kearns, J. J.	104	vii	Larder lake, notes by Brock.....	208	A xvi
	104	viii	photos.....	209, 214	A xvi
Keating, Walter J.	63, 70, 75	ix	section showing.....	205	A xvi
William H. Notes by, on Indian cannibalism. 138		v	Name proposed by Lawson.....	19	R C
Ref. to work by on a visit to the			Nipigon Lake dist., divisions of.		
source of St. Peter river.....	63	iii	112, 139		A xvi
Kechiperach, Joe	135	A xiii	iron bearing.....	113, 114	A xvi
Keefer, T. A. Evidence by, before R. C.....	62	R C	petrography.....	129	A xvi
Manager, Huronian mine.....	123	v	Notes on, by Coleman.....	152-157	vii
Keek-keek lake, SHEBANDOWAN LAKE DIST. <i>See</i> Hawk lake.			Rainy Lake dist :—		
Keeley, C.	142	x	gold bearing veins in.....	59	iv
Keen, Joseph	207	iv	notes by Coleman.....	46-49	iv
Keenan, C.	142	x	petrography.....	83-95	iv
	74	xi	soapstone in.....	73	iv
	66	xii	Wabigoon (near).....	279	viii
	48	A xiii	Timagami dist., ores of.....	29-32	B xiv
	72	A xvi	gold mine. <i>See</i> Hay Island		
James	66	xii	mine.		
	48	A xiii	Gold Mg., Prospecting and Development Co.		
	35	A xvi	Capital and date of charter.....	10	vii
Keenora Mg. and Milling Co. Capital and date of charter.....	9	xii	Lumber Co. Lease to, of Sultana island.....	14	iii
Properties of.....	96	xii	Mill race of.....	171	v
Keepawa. <i>See</i> Kipawa.			Power Co. Capital and objects.....	53	vi
Kees, W. H.	141	x	Keewatin Silver Cobalt Mg. Co. Capital and date of charter... ..	28	A xvi
Keewatin, NEAR KENORA, L. OF THE WOODS. Flour mill at.....	53	vi	Keewaydin Lumber Co. <i>See</i> Keewatin Lumber Co.		
Map of, sketch.....	168	v	Keewenawan. <i>See</i> Keweenawan.		
Minor ref. to.....	169	v	Keg lake, SHEBANDOWAN LAKE DIST. <i>See</i> Baril lake.		
Nickel mining near.....	249	ii	Kehoe, J. J.	203	iv
Population of.....	171	v		273	xi
Reduction works at, description. 60-62		vii	Keith, Alexander	56	iii
99		viii	George E. Founder, Marmora Reduction		
88		ix	Co.....	236, 237	iv
operating. 89, 91		x	Kekek (OR KEEK-KEEK) brook, MAT-AWIN RIVER, TH. B. D. Notes on, by Blue.....	128, 129	v
251		xi	Kekekwbik lake, WHITE-CLAY RIVER, ABITIBI RIVER. Notes on, by Bolton.....	184	xii
photo.... 16, 96		vii	Kelil, J. B.	71	ix
80, 81		ix	Kellar, E. K.	127	xii
Water power at.....	53	vi	C. S. Brick-making by, Stratford. 12, 91, 92		B xv
channel, L. OF THE WOODS. 168, 171		v	Kellett, William Evidence by, <i>re</i> royalties in Gt. Britain.		
formation. Animikie iron range, notes by			Kelley location (A. L. 111), SHOAL LAKE, SEINE RIVER, R. R. D. Notes on, by Coleman.....	65	v
Silver.....	158, 159	A xv	Kellog, Charles	31	ix
Bad Vermilion lake, contact with			Kelly, Alfred	35	A xvi
granite, photo.....	64, 66	vi	D. L.	30	vi
Boston tp.....	262-266	A xiv			

	Page.	Vol.		Page.	Vol.	
Kelly, Henry			Kennedy, M.			
Estimate by, of cost of pig-iron making, Toronto.....	114	ii	President, Imperial Cement Co..	17 B	xiii	
Thomas	19	ix	Owen Sound Cement Co.....	108	ix	
William				17	x	
Evidence by, before R. C. re:—				32	xii	
free-trade.....	234	R C		144 A	xiv	
lithographic stone, Marmora tp.....	53	R C	United Gas and Oil Co.	144 A	xiv	
Lithographic stone quarry worked by, Marmora tp.....	138	iii	T.			
and Jones Co.	119	ii	Work by, 1897, Goulais River dist.	197, 199, 203	viii	
island, L. ERIE.			T. J.	187	vii	
Limestone from, as flux.....	340	R C	Cobalt, Ltd.			
lake, SUDBURY DIST.			Capital and date of charter.....	28 A	xvi	
Rocks on and near.....	296	xii	process (oil refining).....	165	R C	
gabbro.....	240, 261, 263	xii	Kennefic claim, ANGLESEA TP., ADDINGTON CO.			
	48, 77, 78 c	xiv	Arsenic in.....	105	xi	
greywacké and slate.....	76, 89 c	xiv	Kennelly, Dr. A. E.	34, 36	v	
quartz, mined for flux.....	121	xii	Kenny, T.	104	vii	
norite.....	121 c	xiv	Kenogami lake, BLANCHE RIVER, NIP.			
tp., NIP.			Description of, by Bolton; geology of vicinity.....	175-180	xii	
Gold mining in.....	57	vi	Minor ref.....	248 A	xiv	
See also Gold Cliff mine.			Rocks near, petrographical notes.....	189	xii	
Kelpin, C. P.	44, 113	vii	lake, CHICOUTIMI CO., QUE.			
Kelso, NASSAGAWEYA TP., HALTON CO.			Beryls on.....	237	vii	
Lime-kilns at.....	14 A	xiii	river, ALBANY RIVER.			
quarry at, photo.....	48, 49 B	xiii	Fossils on, marine.....	50	R C	
Kelvin, Lord			Geological conditions on.....	32 B	xiii	
Letter from, to Carbide Willson.....	160	iv	Lignite on.....	52 R C; 125	iv	
Kemp, A. E.	16	v	Minor ref. to.....	201	v	
Prof. J. K.			Pleistocene deposits on.....	137	vii	
Views of, re deposition of Sudbury ores.....	17 c	xiv	Timber and soil on, notes by Bell.....	112	iv	
Kempfer—?	85	vi	Waterpower from.....	252	vii	
Kemptonville, OXFORD TP., GRENVILLE CO.			Kenogaming lake, N.W. OF MATTAGAMI LAKE, ALG.			
Brick-clay in, notes on.....	65 B	xv	Route to, from Mesomekenda lake.....	130	ix	
Calcareous formation in.....	47 B	xiii	Kenogamissee lake, MATTAGAMI RIVER, ALG.			
Character of country near.....	217	x	Notes on.....	127, 128	ix	
Kendall, E. H.			Pine on.....	141	ix	
See also Kendall and Whiting.			portage, KENOGAMISSEE LAKE, ALG.			
Part owner, Gold Creek g. m....	232	ii	Description of.....	127	ix	
Work by, for Sultana g. m.....	48	vii	Huronian rocks at.....	131 A	xv	
and Whiting.			Waterpower at.....	142	ix	
Copper mining by, L. of the Woods.....	99	vi	Kenoja (KENOZHA) lake, NIP.			
Gold mining by, L. of the Woods.....	50, 107	vi	Description of.....	112 A	xiii	
Steamer of.....	106	vi	Kenora (RAT PORTAGE), L. OF THE WOODS.			
Work by, for Cornucopia g. m....	54	vii	Gold at, alluvial.....	66	R C	
Kennebec tp., FRONTENAC CO.			disputed titles.....	446	R C	
Granite in.....	202	xi	mining, 1896.....	6 Bull.	i	
Iron ore in.....	45	ii		108, 109	vi	
Kennedy, E. C.	87 A	xiii		1897-8.....	57-59	vii
H. W.	67	viii	See also L. of the Woods.			
J.			Govt. road to, from Rainy lake..	34	vii	
Gravel pits of, near Chrysler.....	218	x	cost of.....	9	vi	
Lime quarry and kiln of, photo.....	126, 127 B	xiii	Historical notes.....	168-171	v	
James C.			Map of, sketch.....	168	v	
Notes by, on water-supply of Owen Sound.....	55.	i	Mining class at, 1894.....	218	iv	
John			1895.....	6, 217	v	
Gold mining by, L. of the Woods.....	40	vii	1896.....	198	vi	
Manager, Gray Eagle gold mine.....	59	vii	1897.....	261	vii	
Owner, King gold mine.....	227	iv	Land agency at.....	2, 3	vii	
John Welford			1900.....	145, 146	x	
Abitibi soils determined by.....	130 A	xiii	1901.....	80, 81	xi	

	Page.	Vol.		Page.	Vol.
Kenora.—Con.			Kenty, John	36	vi
Land agency at.— <i>Con.</i>				111	vii
1902.....	49	xii	Keppel tp., GREY CO.		
1904.....	34 A	xiv	Cambro-Silurian in	48 B	xiii
Recorder's office at.....	36 A	xvi	Cement works in	109	i
Photos of, old	128, 129	v	<i>See also</i> Colonial Portland Ce-		
Pyrrhotite near.....	192	ii	ment Co.		
Reduction works at	4	i	Marl in.....	31	xii
municipal aid to	31	iii		17 B	xiii
notes by Blue	187, 188	v		140, 159 A	xiv
photo	176, 177	v	analysis	51 B	xiii
<i>See also</i> Dominion Gold Mg.			and clay in, for cement....	19 B	xiii
and Red. Co.			Oil in, boring for.....	24 A	xiii
Rocks at and near:—			Tar in.....	543	R C
conglomerate	153....	vii	Kerbela (OR Meshed=Hossein), ASI-		
	184	ix	ATIC TURKEY.....	166	i
gneiss (quarry)	76	iv	Kerman, John	125	vii
notes	118	vi	Kerosine. <i>See</i> Oil.		
sandstone, character.....	183	ix	Kerr, David G.		
Saugeen clay near.....	22 B	xv	Manager, Belmont g. m.....	89	vii
Sampling works at, notes on....	62	vii		40	viii
Water-power belonging to	14 A	xv		92	ix
Mining Division.				114	x
Creation of	36 A	xvi		52, 63, 188-191, 236	xi
Description of.....	42-44 A	xvi		56, 111	xii
Kenrick, E. B.			Cordova mine	54 A	xiii
Smaltite observed by, McKim tp.	59 B	xiv	Craig corundum mine..		
Kensie, O.	142	x		40, 74 A	xiv
	74	xi		40, 43 A	xv
	66	xii	Frontenac lead mine ..	79 A	xvi
Kensington, LONDON, ENGLAND.			Kerr, Frederick		
Normal school at, notes on.....	492	R C	Brick making by, Burks Falls...	88 B	xv
iron mill, PITTSBURG.			Credition	71 B	xv
Labour employed at, statistics ..	370	R C	H. L.		
Kent, Robert	133	x	Acknowledgments to	53 A	xvi
Bros.			Part owner, University mine....	85 A	xv
Analysis of talc from property of.	101	iii	Report by, on explorations in		
Mica mining by, Bobs lake....	12, 92 A	xiii	Mattagami valley.....	116-135 A	xv
	86 A	xiv	Work by, 1905	47 A	xv
	23, 89, 91 A	xvi	James	162	R C
producing, 1904.	20 A	xiv	John	92 A	xvi
prospecting, 1905.....	103 A	xv	Robert A.	267	vii
Mica trimming works of, King-				26, 27, 45, 79	viii
ston.....	291	xi		66	ix
	131	xii	lake, COBALT DIST., NIP.		
	92 A	xiii	Railway spur to.....	10 A	xvi
	86 A	xiv	Silver mining near.....	38 A	xvi
	105 A	xv	<i>See also</i> Kerr Lake Mg. Co.		
	91 A	xvi	Drummond silver m.		
Raymond mica mine worked by.	126	xii	Silver veins south of.....	33, 34 B	xiv
Stoness mica mine worked by....	92 A	xiii	Slate-breccia near.....	8 A	xv
co.			Lake (LAWSON) Mg. Co.		
Brick-yards in, notes on	72-74 B	xv	Capital and date of charter.....	30 A	xvi
Limestone in, Corniferous	25 B	xiii	Close corporation	13 A	xvi
notes by Miller....	68 B	xiii	Exhibits of, at Pan-American Ex.	25 A	xv
Natural gas and oil in	29	v	Notes on, 1905.	83 A	xv
exploring for....	18-24	vi	Producing, 1904.....	15 B	xiv
notes	123	i	1905.....	7 A	xv
and borings.			Lake (JACOBS) silver mine,		
	109-111 A	xiv	COBALT, NIP.		
report by Knight....	92-104 A	xvi	Accident at.....	34, 35 A	xvi
ref. to.....	21 A	xvi	Working, 1906.....	8 A	xvi
<i>See also</i> Raleigh tp.			Kerretichison, Robert.	196	i
Romney tp.			Kerry Mining Co.		
Oil and Gas Co.			Capital and date of charter.....	31 A	xvi
Capital and date of charter.....	11	xi	Kerrwood, ADELAIDE TP., MIDDLE-		
Kentucky, U. S.			SEX CO.		
Lithographic stone from, analysis.	182	ii	Brick-yard at, notes on.....	79 B	xv
Natural gas in.....	115, 116	i			

	Page.	Vol.
Kesagami lake, KESAGAMI RIVER, NIP.		
Explorations on, ref. to.....	xii	A xiii
Forest fires south of.....	177	A xiii
Lignite on.....	174	A xiii
Map of, sketch.....	149	A xiii
Minor ref. to.....	137	A xiii
Moose on.....	178	A xiii
Notes on.....	144	A xiii
Peat on.....	174	A xiii
notes by J. M. Bell.....	148, 150	A xiii
photos.....	144, 145, 151	A xiii
Soil around.....	176	A xiii
river, HANNAH BAY, JAMES BAY.		
Minor ref. to	148	A xiii
Notes on, by J. M. Bell.....	137	A xiii
Peat on, analysis.....	175	A xiii
Kettle creek, ELGIN CO.		
Boring near, for water.....	60	i
falls, ABITIBI RIVER.	183	viii
falls, NAMAKAN RIVER, R. R. D.	161	v
falls, SPANISH RIVER, ALG.		
Rocks at	81	i
=holes or Pot-holes.		
Dog river, L. Superior.....	141	viii
Peninsula (near).....	112	vi
Quinze river, Que.....	227	xi
Sudbury dist.....	102	C xiv
Wanapitei, near.....	167	vi
lake, FALCONBRIDGE TP., NIP.		
Photo of.....	102	C xiv
pt., BOSANQUET TP., L. HURON.		
Cincinnati anticline near.....	42	R C
.....	116	i
Humboldtine in.....	194	ii
.....	198	ix
Oil at.....	206	ix
Oxalite at.....	206	ix
Shales from, analysis.....	156	xii
pt., RAINY LAKE, R. R. D.		
Scenery near	160	v.
portage, GROUND-HOG RIVER, ALG.	133	ix
Kettle, Charles		
Evidence by, before R. C. re:—		
gold, Waters tp.....	112	R C
staking claims.....	310	R C
Gold mining by, Waters tp.....	112	R C
Keweenaw pt., L. SUPERIOR, U. S.		
Copper on	36	R C
.....	63, 83-86	iii
.....	208	v
early mining.....	145	ix
Rocks on, cupriferous.....	83-86	iii
Keweenawan.....	36	R C
.....	69, 76	iii
sandstone.....	133	vi
Keweenawan formation.		
See also Nipigon formation.		
Animikie iron range.....	256	A xiv
Copper deposits of, notes by Irving.....	82-88	iii
Crooks tp.....	146	ix
Iron lake, McTavish tp, photo..	169	A xv
Lake Superior.....	36, 67	R C
Black bay, gold in.....	39	iv
Gargantua cape	9	Bull. iii
Michigan, notes by Coleman..	144	xi

Keweenawan formation.—Con.

Lake Superior.—Con.		
Michipicoten island	9	Bull. 3
.....	143	viii
notes by Coleman	168, 169	viii
Irving.....	76-78	iii
occurrences.....	69	iii
petrography.....	170-172	viii
Pukaskwa river (near).....	143	viii
Michipicoten div.....	204	vii
.....	132	viii
notes by Moore.....	204	A xv
photos.....	168, 169	viii
.....	190	A xv
Nipigon Lake dist.....	119, 133	A xvi
notes by Coleman	131, 132	A xvi
Moore.....	147, 148	A xvi
Notes on, by International Committee.....	271-277	A xiv
Silver Mt. area, Th. B. d.....	31	R C
Sudbury dist., divisions.....	14	C xiv
Keystone (or CLIMAX) silver mine, NEAR SILVER CREEK, TH. B. D.		
Acquired by Consolidated Mines Co.....	19, 256	xi
.....	96	xii
Inspector's report on, 1891.....	227	i
1892.....	233, 239	ii
Keystone Rolling Mill, PITTSBURG.		
Iron and steel output, 1893	119	ii
Labour employed by, statistics..	370	R C
Keystone vein, GRANITE LAKE, L. OF THE WOODS.		
Character of	25	iii
Kharkoff prov., RUSSIA.		
Peat in.....	216	ii
Khorsabid, ASIA MINOR.		
Brick of.....	107	iii
Kiaskho river, NETTOGAMI RIVER, ALG.		
Black-clay shales near.....	161	A xiii
Rocks at mouth of	142	A xiii
Kidd, Benjamin		
Notes by, on political economy..	9	iv
Joseph		
Salt-making by, at Goderich ..	190	R C
W. G.	81	ii
.....	191	iii
tp., ALG.		
Soil in, and timber.....	120, 127, 140	A xv
Kidney diseases.		
Water for, Port Colborne	129	i
Kieff prov., RUSSIA.		
Peat in.....	216	ii
Kiely, Thomas B.	276	vi
Kikenda Onegum (KETTLE PORTAGE), GROUND-HOG RIVER, ALG.	133	ix
Kilbourn, F. A.	31	xii
.....	17	B xiii
.....	148	A xiv
G. S.	108	ix
.....	154	A xiv
J. M.	17	x
.....	31	xii
.....	17	B xiii
.....	148	A xiv
Kilkenny harbour, L. SUPERIOR.		
Beaches on, level	155	viii
Description of shores near.....	134	viii

	Page.	Vol.		Page.	Vol.
Killaloe, HAGERTY TP., RENFREW CO.			King, Dr. Edmund E.		
Cambro-Silurian near.....	104	B xiii	Manager, United Gas and Oil Co.	43	xi
Stratified deposits near, altitude.	223	x	Man. Director, National Gas and		
Killaby loc., KILLABY PT., L. HURON.			Oil Co.....	28	v
Azurite in	195	ix	President, Sentinel Con. Gold		
Killarney, RUTHERFORD TP., ALG.			Mg. Co.....	64	viii
Building-stone near (quartzite)..	93	i	Francis P.		
Geology of vicinity	83	i	Ref. to work by, on corundum		
Huronian at.....	63	R C	deposits of Georgia.....	62	vi
Iron ore near	59	R C	Neil A.	7	A xvi
magnetic.....	64	ii	S. A.	104	viii
Quartz crystals near.....	208	ix	Dr. S. A.	117	i
Silver near	60	R C	and Mulligan.		
Stone near, for glass-making....	94	i	Brick producing, 1902.....	29	xii
(SHIBAONANING) bay, L.			Cobalt Mining Co.		
HURON.			Capital and date of charter.....	28	A xvi
Contact, Huronian and Lauren-			Work by, 1905.....	81	A xv
tian, north of.....	68	i	Cobalt silver mine, COLEMAN		
Diabase dikes near.....	76	i	TP. See last ref.		
Quartzites west of.....	72	i	Edward gold mine, MANITOU		
harbour, L. SUPERIOR. See			LAKE, R.R.D.		
Kilkenny harb ur.			Idle, 1904.....	51	A xiv
Kilman, A. H.	135	i	Notes on, 1903	69, 70	A xiii
Kilns.			Edward Hotel, TORONTO.	91	B xiii
For cement making, notes and			Edward Mine, Ltd. (BRUCE		
diagrams.....	126-130	A xiv	MINES).		
For magnetic iron ores.....	478	R C	Capital and date of charter.....	37	A xiii
For roasting pyrites, notes by			Edward Oil Co.		
Fraleck.....	194	A xvi	Capital and date of charter.....	37	A xiii
See also Brick kilns.			gold mine, L. OF THE WOODS,		
Lime kilns.			R.R.D.		
Rotatory kilns.			Notes on, 1894.....	227	iv
Taylor kilns.			1896.....	97	vi
Kilpatrick, Thomas N.	50, 277	xi	lake, SEINE RIVER, R.R.D.		
Kilrush, CLARE CO., IRELAND.	202	i	Gold mining on	79	ix
Kimball, Hattie AND W.			of all the Mountains, GOULAIS		
Gold mining by, Michipicoten			BAY, L. SUPERIOR.		
div.....	192	vii	Altitude of.....	150	viii
licence.....	104	vii	oil well, PETROLEA.	165	R C
	104	viii	street, HAMILTON.		
	116	ix	Remains of vertebrates in gravel		
	142	x	in.....	229	A xiii
	74	xi	Kingfisher, belted		
	66	xii	Abitibi dist.....	126	A xiii
Kimberley, P. L.	275	xi	Kinglet, golden crested		
Kimberley, SOUTH AFRICA.			Abitibi dist.....	243	A xiv
Diamonds at	122	ix	King's College, WINDSOR, N. S.		
(OR INDIAN LAKE) copper			Notes on, by Richards.....	511	R C
mine, ABERDEEN TP., ALG. ..	100	xii	Kingsmill, A.	111	vii
(OR KAROO) shales.	123	ix	J. J.	31	v
Kincardine, KINCARDINE TP., BRUCE				145	vi
co.			Nicol	77	v
Artesian well in.....	58	i	tp., NIP.		
Limestone quarry near.....	35	B xiii	Muskeg and timber in.....	141	A xv
Onondaga formation at	45	R C	Kingston, FRONTENAC CO.		
Salt at	189	R C	Altitude of.....	221	x
notes by Merritt	183	R C	Anthraxolite near.....	6	Bull. ii
record of boring	184	R C		165	vi
Salt at, works.....	22	A xiii	analysis.....	163	vi
	20	A xiv		194	ix
	23	A xvi	Beaches near.....	241	A xiii
See also Ontario People's			Blast furnace at, for iron, pro-		
Salt Co.			jected.....	32	iv
Kineon, S. P.	61	A xiii		17	ix
King, Clarence			lead.....	175	i
Notes by, on utility of mining				191	ii
statistics.....	412, 413	R C		234	vii
Warning by, re picking eyes of a				11	A xiii
mine	158	vi			

	Page.	Vol.
Kingston, FRONTENAC CO.—Con.		
Brick moulding-plant at, photo .	44	B xv
yard at, analysis of clay for.	17	B xv
notes.....	64, 65	B xv
Celestite from.....	193	ii
exhibited at World's		
Fair.....	190	ii
baryt -celestite.....	195	ix
Fort Frontenac the original name		
of	196	v
Granite quarrying at, evidence		
before R. C.....	83, 84	R C
notes by Merritt.....	74	R C
Lead north of.....	191	ii
Limestone buildings of.....	24	B xiii
quarries near.....	43	B xiii
analysis.....	44	B xiii
Mica trimming works at.....	135	x
	28, 291	xi
	92	A xiii
	86	A xiv
	105	A xv
Mineral spring at, analysis.....	204	ix
Rocks at and near :—		
greenstone dikes.....	15	v
Palæozoic.....	40	R C
	27	B xiii
School of Mines at. <i>See</i> Kingston		
School of Mines.		
Science Hall of, improvement in.	60	x
Strontium at.....	60	B xiii
University at. <i>See</i> Queen's Uni-		
versity.		
Zinc-blende at.....	209	ix
and Pembroke Iron Mg. Co.		
Bedford and Lizzie mines owned		
by	30, 31	viii
Capital and date of charter.....	10	vii
Estimate by, of cost of producing		
pig-iron.....	391	R C
Mining by.....	135	R C
and Pembroke Ry. <i>See</i>		
dist.		
Apatite deposits in....	53, 167-177, 402	R C
Feldspar in.....	19	A xv
	21	A xvi
for pottery.....	205	ix
<i>See also</i> Frontenac co.		
and Kingston Feld-		
spar & Mg. Co.		
Iron ores in.....	58-62	ii
character.....	392	R C
cost of production. 336, 337, 391		R C
evidence before R. C. 52, 131-141		R C
mining, Bagot tp.....	275	v
notes by Merritt.		
	127-129	R C
Rocks in, mica-schists.....	101	B xiii
Feldspar and Mining Co.		
Accident to employee of	31	A xv
Feldspar mining by, Bedford tp.	81	A xiv
notes on.....	39	xi
	38	xii
	21	A xiii
	19	A xiv
and photos of		
workings. 99, 100		A xv
Richardson mine owned by.....	85	A xvi

	Page.	Vol.
Kingston Mills, KINGSTON TP., FRONT-		
ENAC CO.		
Hamilton formation at.....	99	A xiv
<i>Piloceras</i> at.....	59	B xiii
Mining and Development Co.		
Feldspar mining by, near Verona.	102	A xv
	21	A xvi
Phosphate Co.		
Capital and date of charter.....	10	vii
Mining by, Storrington tp.	239	i
School of Mining and Agri-		
culture.		
Description and objects of... 195-197		vi
Field class of, 1895, notes by		
Miller.....	218-220	v
Notes on, 1895.....	213-215	v
1900	58-60	x
Organization and management of.		
	170-180	iii
Photos of.....	192, 193	vi
	48, 49	x
	Frontis. pt.	B xiii
	48, 49	B xiii
Report on, 1898, by Goodwin. 259-263		vii
Shipment from Larder lake.		
treated at.....	216	A xvi
Kingsville, S. GOSFIELD TP., ESSEX		
CO.		
Mineral water in.....	60	i
Natural gas in.....	42, 151	R C
	114	A xiv
boring for.....	153	R C
	28	v
	20	x
exhausted	22	A xiii
notes by Stiff.....	43	xi
Oil in, notes on, 1890.....	117-120	i
On Cincinnati arch.....	42	R C
Uplift near.....	156	i
Water-supply of.....	60	i
Natural Gas and Oil Co.		
Notes on, 1890.....	117-120	i
Operating, 1895..	29	v
Kinmount, SOMERVILLE TP., VICTORIA		
CO.		
Graphite near.....	93	A xiii
Iron at, cost of producing... 331, 332		R C
furnace.....	326, 394	R C
Kinnicutt, Dr. L. P.....	34, 36	v
Kinniwabik lake, MORGAN AND		
LEVACK TPS. <i>See</i> Moose lake.		
Kinnushaw, A.....	142	x
Kinshor, A.....	104	vii
Kioshwabic, (OR GULL) lake, WEST		
OF KAPISKASING LAKE, ALG....	138	ix
Kipawa lake, PONTIAC CO., QUE.		
Grenville limestone near.....	102	A xiii
river, KIPAWA LAKE, QUE.		
Rocks on.....	162	x
Kipp Oil Co.		
Capital and date of charter.....	37	A xiii
Working in Raleigh tp.....	104	A xvi
oil field, RALEIGH TP., KENT		
CO.		
Notes on, by Knight.....	104	A xvi
Kippin, C. E. <i>See</i> Gurd and Kippin.		
Kirk gold mine, THE NEW KLON-		
DIKE, R.R.D.....	42	viii
lake, COBALT DIST., NIP. 35, 45, 46		B xiv

	Page.	Vol.		Page.	Vol.
Kirkaldy—?			Kitchimene lake.—Con.		
Torsion tests by, on iron.....	385	R C	Map of, sketch.....	178	vi
Kirkegaard, P.			Rocks on and near.....	179	vi
Manager, Deloro g. m.	60	vi	Snowfall at, Sept. 19th.....	184	vi
	91	vii	Kitely, H. and T.	104	viii
	40	viii		116	ix
	91	ix	Kitley tp., LEEDS CO.		
	115	x	Calceiferous formation in.....	72	B xiii
62, 195, 196, 232	xi		Kitson, Arthur.	56	iii
56, 109	xii		Sir James		
for Corundum Refiners,			On nickel-steel.....	365	R C
Ltd.....	21	A xiii	in British Navy.....	110	ii
Notes by, on Deloro g. m.....	103	xi	prospects.....	385	R C
Pamphlet by, for Pan-American			Kittridge, H.		
Exhibition.....	85	xi	Evidence by, before R.C. re :—		
ref. to.....	32	B xiv	oil borings, Glencoe.....	55	R C
Mrs. P.	56	xii	Petrolea.....	161	R C
Kirkgaarde and Chisholm.			Kitts, John	48, 49, 57	xi
Zinc mining by, Olden tp.....	94	A xv	Kittson, H. N.	54	vi
Kirkfield, ELDON TP., VICTORIA CO.			Kjellin, K.		
Peat bog at, notes.....	209	xii	Analysis by, of tinguaita.....	189	ix
See also Trent Valley Peat Fuel Co.			Klein, M. E.		
Kirkintilloch, SCOTLAND.			Notes by, on asbestos.....	94	iii
Nickel-steel works at.....	147	ii	Logan Co.	120	ii
Kirkland, A. H.			Klinck Brick & Stone Slab Co.		
Notes by, on preparation of lead			Capital and date of charter.....	10	vii
arsenate.....	113	xi	Klock, James.	268	vi
Kirkley, William.	111	vii	Klondike and North-West Mg.		
Kirkpatrick, G. B.	6	vi	Corporation.		
George Airey			Capital and date of charter.....	10	vii
Transmittal letter to, 1894.....	i	iii	The New See New Klondike.		
1895.....	i	iv	Klugh, A. B.	240	A xiv
Kirkwood, Thomas			Knechtel, D.	31	xii
Beaver farm of, Parisian isle, U.S.	110	v		17	B xiii
Kirkville mill stream, NEAR OWEN				142	A xiv
SOUND, P.S.D.			J. S.	31	xii
Pleistocene deposits near.....	151	viii		17	B xiii
Kirkwood, T. N. See Kirkwood			Kneebone, T. H.	63	xii
nickel mine, GARSON TP., SUD-			Knickerbocker inlet, L. OF THE		
BURY DIST.			WOODS, R.R.D.		
Idle, 1902.....	256	xii	Notes on, by Coleman.....	119	vii
Notes on, 1899.	36, 37	viii	Knife lake, DOG RIVER, L. SUPERIOR.		
Rocks at and near :—			Length of.....	285	A xiv
norite.....	112	C xiv	Minor ref. to.....	292	A xiv
notes by Coleman.....	61	C xiv	Notes on, by Willmott.....	140	viii
structure.....	81	C xiv	Railway near, proposed.....	289	A xiv
Kishkutena gold mines, MANITOU			Knife lake, RAINY LAKE, U.S.		
LAKE, R.R.D.			Graywacke on.....	255	A xiv
Notes on, 1897.....	122	vii	Iron ore on.....	65	ii
hills, MANITOU LAKE DIST., R.			Knight, Cyril W.		
R. D.			Paper by, and Miller, on Gren-		
Altitude of.....	44	iv	ville-Hastings unconformity.		
Kitchener, B.	142	x		221, 222	A xvi
	74	xi	Report by, on Oil and Gas in		
tp., NIP.			Kent co.....	92-104	A xvi
Iron ore in.....	216, 219	A xiii	ref. to.....	24	A xvi
Kitchi schists.			Silver Bar mine located by.....	86	A xv
Age of.....	185	ix	Work by, 1905.....	40	B xiv
Marquette region, U.S.....	202	x	1906.....	2, 14	A xvi
=Gammi Gold Mining Co.			Knobel, H. E.		
Capital and date of charter . . .	9	x	Experiments by, on Loon lake		
Mining by, Michipicoten div..	47, 48	A xiii	iron ores.....	172	A xv
	35	A xiv	Iron prospecting by :—		
Kitchimene lake, ALG.-NIP. BOUND-			Atikokan range.....	266	xi
ARY LINE.				156	A xv
Country near, notes on.....	177	vi	Loon Lake range.....	254	A xiv
Drift deposit near.....	183	vi	Knopiala, Elias.	45, 50	x
Glacial striae on.....	181	vi			

	Page.	Vol.		Page.	Vol.
Knotenschiefer.			Koskela, Alexander	35	A xvi
Slate resembling, Matawin iron range.....	83	v	Kosola, Isaac	46	x
Knott claim, REDDICK GROUP, LARDER LAKE, NIP.			Krapotkin, Prince	144	vii
Notes on, by Brock.....	216, 217	A xvi	Krean (OR CREAN) Hill mine, DEN-ISON TP., ALG.		
Knox tp., ABITIBI DIST.			Evidence <i>re</i> , before R. C....	105, 434	R C
Fall of Abitibi river in.....	186	A xiv	Gold in.....	32	iv
Greenstone in.....	201, 206	A xiv	Notes on, 1905.....	64	A xv
Soil in.....	233	A xiv	by Merritt.....	89	R C
analysis.....	246	A xiv	Ores of, lime required for fluxing.	66	A xvi
Timber in.....	233, 244	A xiv	Rocks in and near.....	76	i
poplar, photo.....	216	A xiv		32	iv
windfalls.....	199	A xiv		31, 32	C xiv
Kobold, G. A.			Work in, 1904.....	71	A xiv
Gold prospecting by, Jaffray tp..	185	v	1906.....	62, 64	A xvi
Gold Mining Co.			Kreifinger, —?		
Capital and date of charter.....	10	vii	Cobalt mining by, Saxony....	78, 79	B xiv
Koch and Mannhardt's peat process	217	ii	Kreismann, R. D.	74	xi
Koehler and Strong	120	ii	Krelintz, F. M.	142	x
Koenig, Dr. A.			Krelwitz, E. F.		
Experiments by, on sphagnum moss.....	122, 123, 140	iii	Iron mining by, Aberdeen tp..	76, 77	A xiii
Kohler, Father	173	ii	Krilobsky, MOSCOW PROV., RUSSIA.		
Kohlsville, WASHINGTON CO., WIS.			Peat at.....	217	ii
Diamonds at.....	120	ix	Krom, S. R.	338	xii
Kokagaming lake, STURGEON RIVER, NIP.			Kronk, J. F.	104	vii
Description of.....	139	viii	Kroskie, H.	167	iii
Gold mining on and near.....	237	ii	Krupp, Frederick		
	140	viii	Armour plates of.....	152, 161-163	iii
<i>See also</i> Gold Cliff g. m.			Experiments by, with nickel-steel.	140, 141	ii
Charleboough g. m.					
Rocks on and near.....	93	C xiv	Gun works of, Essen.		
argillites.....	73	i	molybdenum used in.....	46	xi
arkose, petrography.....	150	B vii	notes on.....	176	C xiv
diabase, ".....	149	B vii	ore for, from Africa.....	110	ii
Kokohama, INDIANA, U.S.			Steel tires for locomotives first made by.....	387	R C
Natural gas in.....	152	R C	Kudsir, HUNGARY.		
Kokoko lake, NEAR TIMAGAMI LAKE, NIP.			Gasifying in, of wood, for iron smelting.....	484	R C
Geological notes on.....	172, 173	x	Kugler, George M.	267	viii
Jaspilite near.....	167, 172	x	Kuhn, H. J.		
assay.....	180	x	Brick-making by, Crediton.....	71	B xv
coloured photo.....	Frontis.	x	clay for, analysis... ..	17	B xv
Map of, sketch.....	316	xii	Kukatouche river. <i>See</i> Ground-hog river.		
Rocks on and near.....	174, 176	x	Kunz, George F.		
Kola pen., RUSSIAN LAPLAND.			Notes by, on corundum.	215	vii
Analysis of tinguaita from..	189, 190	ix	Methuen tp.....	63	vi
Kootenay dist., B. C.			diamond prospecting.....	120	ix
Hessite from.....	106	v	titanite.....	211	ix
Kopparberg (LATE DALARNE), SWEDEN.			Sapphire from Methuen tp., favourably regarded by.....	87	xi
Analysis of cancrinite-syenite from.....	173	viii	Kupfernickel. <i>See</i> Niccolite.		
Koppel, L.	104	vii	Kuski, John	45, 48	xii
Korah tp., ALG.			Kutjee, John	45, 46, 50	x
Agricultural land in.....	149	viii	Kwataboahegan river, MOOSE RIVER.		
Gold and copper in.....	60	R C	Fossils from, paper by Parks. 180,-191	A xiii	
Koren, —?	259	viii	shells.....	143	A xiii
	164	ix	Lignite on.....	168, 169	A xiii
Korkill, E. T.			Mouth of, description.....	147	A xiii
Report by, as Inspector of Mines:—			Notes on, by J. M. Bell.....	137	A xiii
1904.....	76-88	A xiv	Peat from, analysis.....	175	A xiii
1905.....	47-107	A xv	Rocks on.....	142, 143	A xiii
Koshkabogamog (KASSHABOG) lake, METHUEN TP., PETERBORO CO			Swamp at, source of.....	146	A xiii
Rocks on and near.....	209-211, 214	viii	Timber on.....	177	A xiii
nepheline-syenite.....	193	xi	Kyanite. <i>See</i> Cyanite.		
			Kyle, M.	49, 58	ix
				52	x
			Kylloven, Pete	46	x
			Kyschtymit. <i>See</i> Anorthosite.		

	Page.	Vol.		Page.	Vol.
Labelle, J. E.			Lac des Mille Lacs.—Con.		
Mining by, Michipicoten div...	104	viii	Minor ref. to.....	117	v
".....	117	ix	Notes on, by Blue.....	113-116, 135	v
".....	142	x	Road from, to Moss tp., built by		
".....	74	xi	Government.....	121	v
M.....	50	xi	Rocks on and near, Huronian...	158	vii
La Belle lake, N. OF WITCH BAY, L.			notes.....	72	vi
OF THE WOODS.			Storms on.....	134	v
Gold mining on. See Wendigo			notes by Palliser and Hind.	119	v
mine.			Surveys S. and S. W. of, by Cole-		
steel mill, PITTSBURG.			man, ref. to.....	3, 4	v
Labour employed at, statistics...	370	R C	Lac du Bonnet, WINNIPEG RIVER,		
La Berudine. See Beraud, M.			MAN.		
Laberge, Dr.			Boulder clay from, analysis.....	92 B	xv
Experiments by, on moss-litter..	191	vi	Lac la Plonge, MICHIPICOTEN DIV.,		
Laboratories, mining			ALG.		
Germany and United States,			Greenstone on.....	302 A	xiv
system of work in.....	417, 418	R C	Minor ref. to.....	289 A	xiv
Kingston School of Mines, photo.	192	vi	la Pluie river. See Rainy river.		
Labour.			Plat, NEAR LAKE OF THE		
Bruce mines, trouble with..	175, 176	ii	WOODS. See Shoal lake.		
New Caledonia.....	149	ii	Poisson Gris, MICHIPICOTEN		
Sudbury dist., statistics, 1892-1898.	19	viii	DIV., ALG.		
Use of penitentiary, in iron mak-			Minor ref. to.....	285, 293 A	xiv
ing.....	16	ii	Rocks on.....	348 A	xiv
Wages paid for. See Wages.			Seul, ONT. AND KEE		
Labrador pen. (Ungava).			Aluminium sulphate on (reported)..	180	vii
Coal in.....	126	iv	Country from, to Wabigoon lake,		
Jaspery ores in.....	202, 204	x	description.....	53-55	v
Mountains in, average altitude...	193	v	Description of, by Coleman....	60-62	v
strike of.....	10	R C	Gold on, reported..	47, 61	v
".....	247	v	Jasper pebbles on.....	74	v
Rocks of, anorthosite.....	14	R C	".....	200	x
Archæan.....	7	R C	Lacustrine deposit on, notes.....	92	v
".....	245	v	Length of.....	49	v
gneiss, effect of glacia-			Stratified sands of.....	93	v
tion on.....	15	R C	Surveys S. of, by Coleman, ref. to	3	v
Huronian.....	17	R C	Wild fruits of, blueberries.....	85	v
labradorite.....	14	R C	early ripening... 113	vi	
Laurentian, Low's			Tortue, RADNOR SEIG., CHAM-		
views.....	159	vii	PLAIN CO., QUE.		
tea.			Iron ore on.....	26	ii
Abitibi dist.....	241, 250 A	xiv	Laccolite.		
Mattagami valley.....	150 A	xv	Definition of.....	537	R C
Labradorite.			Ont. and northern U. S.....	156-158	vii
Definition of.....	537	R C	Laccolithic sills.		
Exhibited at World's Fair.....	188	ii	L. Superior, conclusions by Law-		
Hardness of.....	202	vi	son.....	170, 171 A	xv
Labrador.....	14	R C	Lace bugs. See Bugs, lace		
Lake Huron.....	194	ii	Lacey, Jonathan P.		
Montreal, north of.....	11	R C	See also Smith and Lacey mica		
Notes on and occurrences.....	200	ix	mine.		
by Goodwin.....	225	vi	Notes by, 1891, on Sydenham		
Specific gravity of.....	202	vi	mica mine.....	244	i
Labuan.			Lacloche islands, NORTH CHANNEL,		
Royalties on minerals in.....	43	i	L. HURON.		
Labyrinth bay, L. OF THE WOODS,			Rocks of.....	86	i
R. R. D.			".....	76 B	xiii
Gold mining on. See Sentinel			for glass-making.....	94	i
mine.			Huronian.....	109	R C
Lac au Cypres. See Pitch-pine lake.			limestone, for burning....	94	i
Lac des Mille Lacs, TH. B. D.			Trenton.....	41	R C
Country from, to Atikokan river,			lake, HARROW TP., ALG.		
description.....	72, 73	v	Rocks on.....	83	i
Distances from, to neighbouring			".....	30 A	xiii
lakes.....	136	v	mts., ALG.		
Forest fires near.....	96	iv	Crystalline limestone in, mistaken		
Glacial striae on.....	89	v	for quartz.....	21 B	xiii
Gold near.....	66	R C	Iron ore in dist. of.....	143	R C

	Page.	Vol.
Lacloche mts., ALG.—Con.		
Minerals in, evidence before Roy.		
Com.	59, 60, 109	R C
Quartzites of.....	72	i
for glass-making.....	30	B xiii
<i>pt.</i> , NORTH CHANNEL, L. HURON.	94	i
Rocks north of.....	109	R C
Silver between, and Killarney. .	60	R C
Lacolle, LACOLLE TP., ST. JOHN CO., QUE.		
Peat at.....	198	ii
Lacombe, A.....	74	xi
La Course, —?		
Prospecting by, Anzhekumming lake.....	65, 66	iv
Lacroix river, MATAWIN RIVER, TH. B. D.		
Staurolite crystals on.....	210	ix
<i>Lactuca hirsuta.</i>		
Mattagami valley.....	151	A xv
Lacustrine clay. See Clay, lacustrine deposits.		
Sudbury dist.....	105, 106	C xiv
Western Ontario.....	90-93	v
Ladore pyrites mine, DALHOUSIE TP.		
Gossan from, analysis.....	186	A xvi
Limonite from, photo of laminated.	164	A xvi
Notes on, by Fraleck.....	163, 164	A xvi
Lady Evelyn lake, N. OF TIMAGAMI LAKE, NIP.		
Cobalt near.....	56	A xvi
Copper on.....	24	R C
Galena on.....	198	ix
argentiferous.....	29	R C
.....	101	A xiii
Rocks on.....	72, 73	i
Silver near.....	56	A xvi
"Lady Head" s.s. (H.B.C.).....	191	viii
Lady Macdonald mine, SNIDER TP., ALG.		
Discovery of.....	169	C xiv
Graphite in.....	284	xii
Notes on, 1892.....	249	ii
1899.....	97	ix
1900 (idle).....	122	x
Rocks in and near.....	257, 258	xii
.....	41	C xiv
nickel-bearing eruptive.....	256	xii
norite.....	249, 295	xii
Veins in, course of.....	104	R C
Lady Violet mine, SNIDER TP., ALG.		
Boring in, with diamond drill...	53	x
.....	142	C xiv
Nickel-bearing eruptive in.....	256	xii
.....	40, 50, 111	C xiv
Norite in.....	249	xii
Lady's slipper.		
Abitibi dist.....	241, 253	A xiv
Mattagami valley.....	150	A xv
thumb.		
Night-hawk lake.....	123	A xiii
"Ladysmith" s. s.....	148	xi
Lafargeville, JEFFERSON CO., N. Y.		
Morainic hills near.....	242	A xiii
Lafayette college, EASTON, PA.		
Notes on, by Richards.....	510	R C

	Page.	Vol.
La Fex, Frank.....	93	vii
copper mine. See Hattie Bell copper mine.		
La Forest, Louis.....	269	vi
Lafricain, S.....	113, 115	A xiii
.....	240	A xiv
Lafthi, Samuel.....	28	ix
Lagier, John.....	236, 238	v
<i>Lagopus lagopus.</i> See Ptarmigan.		
Lahay bay, NOSHER BAY, MANITOU LAKE, R. R. D.		
Gold bearing dike on.....	123	vii
Lahey, —?.....	75, 87	vi
Laidlaw, Adam		
Evidence by, before R. C. re:—		
charcoal iron for castings.	330, 401	R C
free trade.....	234	R C
Laing, A. T.....	58	x
W. F.....	56	vii
Lainson, J. W.		
Brick making by, Carlton West..	107	B xv
Laird, Robert.....	60	ix
W. H.		
Evidence by, before R. C. re:—		
free trade.....	235	R C
mining laws.....	312	R C
technical education.....	426	R C
Mining by, Michipicoten div....	74	xi
See also Laird iron claim.		
and Henderson.		
Waterpower plant of, at Sault Ste Marie.....	61	x
iron claim, NEAR PUKASKWA RIVER, L. SUPERIOR.		
Minor refs. to.....	316, 339	A xiv
Notes on, by J. M. Bell.....	334, 335	A xiv
Lake, S. C.....	125	x
Lakes.		
Characteristic of Huronian and Laurentian systems.....	14	R C
Origin of.....	15	R C
With double outlets.....	202	v
Lake Abitibi Gold Mg. Co.		
Capital and date of charter.....	30	A xvi
Champlain, N. Y. AND QUE.		
Iron mines of.....	349	R C
ores of.....	31	ii
Constance, SWITZERLAND, GERMANY AND AUTSRIA-HUNGARY.		
Peat near, duration of formation.	183	i
Erie.		
Chemung and Portage formation on.....	47	R C
Cincinnati anticline beneath.....	151	R C
Corniferous formation.....	46	R C
Devonian on, notes by Miller....	25	B xiii
Erie clay on N. shore of.....	10	B xv
Gravel and sand on, for building.	12	iv
Salt water in gas on (U. S.).....	154	i
Girard system.		
Purchase by, of Martha apatite mine.....	194	iii
Harold Gold Mines Co.		
Capital and date of charter.....	7	vi
.....	10	vii
See also Harold lake.		

	Page.	Vol.		Page.	Vol.
Lake Huron.			Lake of the Woods, R. R. D.		
Altitude of	151	viii	Agricultural land between, and		
Beaches on.....	199	A xv	Rainy lake.....	207	v
notes by Coleman.....	176	ix	Asbestos on.....	195	ix
Cobalt on.....	4, 58, 61	B xiv	Cactus on.....	96	iv
	7	A xvi	Copper (native) from.....	105	v
Copper on, azurite.....	195	ix	Description of, by Bigsby.....	170	v
bornite	193	ii	Fishing industry of, notes by Blue.....	166	v
early knowledge.....	129	ii	Galena on.....	38	iv
malachite.....	202	ix	Geological nomenclature of..	272, 273	A xiv
mining.....	92, 255	R C	Geology of, compared to that of:—		
See also Bruce mines.			Michipicoten div.....	205	vii
Dean lake m.			Wanapitei dist.....	136, 137	vii
Hermia m.			Glaciation on and near.....	49	R C
Massey Sta-			remnant of L. Agassiz.....	91	v
tion mine.			Gold in, character of ores.....	116	R C
Superior m.			discovery	122	iv
Forest fires N. of, 1871.....	206	v	galena in.....	38	iv
Geology of country N. of, paper			mispickel in.....	38	iv
by Bell	63-94	i	pyrrhotite in.....	37	iv
Glaciation N. of, direction.....	49	R C	Gold mining on and near:—		
Gold on.....	114, 115	R C	disputed titles.....	206	R C
Iron mining on.....	123	R C	evidence before R. C.		
See also Wallace mines			64, 65, 117-119		R C
Jasper pebbles on shores of.....	184	ix	future of industry, notes by		
Lumber trade N. of.....	119	iv	Blue	8, 9	v
Mineral deposits on.....	205	R C	notes by Bell.....	25, 26	R C
Mining on, a pioneer's experience.			Coleman	68-70	iv
	171-178	ii	McKellar	266	v
Name "Huronian" derived from.	18	R C	Merritt.....	108, 109	R C
Nickel ore on.....	24	R C	reports on operations:—		
Quartz crystals on.....	208	ix	1892.....	9, 232	ii
Rocks north of	109	R C	1893.....	13-34	iii
Black River formation.....	41	R C	1895.....	4, 168-188	v
conglomerates.....	9	C xiv	1896.....	7 Bull.	i
Devonian, notes by Miller.....	25	B xiii	47-53, 90-104, 248-259		vi
diabase dikes.....	76	i	1897.....	35-67, 112-121	vii
feldspar, aventurine	195	ix	1898. 41-44, 51-69, 276, 277		viii
labradorite.....	194	ii	1899	36-52	ix
Huronian.....	70	i	1900	69-79, 90-93	x
disturbed.....	17	R C	1901	250-255	xi
report by Coleman.....	157-163	viii	1902	93-96	xii
thickness	195	v	1904.....	45-49	A xiv
Onondaga formation.....	45	R C	1905.....	47, 55-58	A xv
quartzites.....	20	R C	1906.....	60	A xvi
for glass-making.....	94	i	Islands floating in, notes on.....	109	vi
sericite-schists.....	209	ix	Lignite on, reported.....	125	iv
trap	15	v	evidences of.....	52	R C
for street paving.....	13	v	Maps of, and of portions:—		
Tranton formation.....	41	R C	Bigstone bay.....	173	v
Rutile on.....	208	ix	Rat Portage bay.....	168	v
Waterpower between, and L.			showing Laurentian and Huron-		
Superior.....	14	B xv	ian formations.....	12	iii
Co.			Sultana island.....	15	iii
Capital and date of charter	31	A xvi	Mica in.....	64	R C
Exhibits of, at Pan-American			muscovite.....	205	ix
exhibition	25	A xv	Mispickel on.....	38	iv
Work by, at Bruce Mines.....	94	ix	Nickel on	129	ii
slope.			See also Keewatin n. m.		
Notes on, by Burwash, geological			Ochre on.....	64	R C
and topographical.....	169-172	vi	Pine in district of.....	119	iv
Manitowick Gold Mg. and			Platinum on (reported).....	92	i
Development Co.			Photos of camps, etc. on	80, 81	vi
Capital and date of charter.....	9	viii	Pyrrhotite on.....	37	iv
Medad Portland Cement Co.			Road in dist. of, built by Govt....	9	vi
Capital and date of charter.....	10	vii	Rocks on and near:—		
of Bays, R. R. D.			carbonaceous shale.....	104	vi
Geology of, and vicinity.....	167	B vii	compared to those of Michi-		
Soil around, character.....	173	B vii	picoten div.....	7, 11 Bull.	iii
Timber near.....	181	vii			

	Page.	Vol.
Lake of the Woods, R. R. D.—<i>Con.</i>		
Rocks on and near.— <i>Con.</i>		
Huronian.....	18	R C
	124	iv
Keewatin.....	160	viii
views of Lawson.....	186	ix
petrography.....	121-124	vi
Route to, from Manitou lake,		
notes on.....	88-90	vi
Shores of, indented, reason for..	203	v
Storm on.....	185	v
Venetian red from.....	64	R C
of the Woods Gold and Sil-		
ver Reduction Co.		
Capital and date of charter.....	10	vii
History of, by Blue.....	31-34	iii
Notes on, 1892.....	234, 235	ii
Objects of.....	53	vi
Operating, 1898.....	37	vii
on the Mountain, PRINCE		
EDWARD CO.		
Trenton limestone on.....	99	B xiii
Waterpower from.....	240	A xiii
Ontario.		
Altitude of.....	221	x
Coast line of, formation of.....	227	x
Erie clay on.....	10, 12	B xv
Glaciation around :—		
direction.....	49	R C
Iroquois beach.....	230	A xiii
Hudson River formation on.....	43	R C
Iron ore on.....	43	R C
Limestone on, fossiliferous.....	89	B xiii
Trenton.....	41	R C
Medina shale on, thickness.....	43	R C
Onondaga formation on.....	117	B xiii
Opinicon apatite mine, BED-		
FORD TP., FRONTENAC CO.		
Notes on, 1892.....	251	ii
Opinicon Phosphate Co.		
Capital and date of charter.....	10	vii
Orion Oil and Gas Co.	116	A xiv
Portland Cement Co.		
Capital and date of charter.....	9	x
Notes on work by, 1902.....	17	B xiii
St. Clair, ONT. AND MICH.		
Boundary line in, position of....	108	v
Peat around.....	191	i
	198, 209	ii
Shebandowan gold mine.		
See Shebandowan lake.		
Shore Natural Gas Co.		
Capital and date of charter.....	24	A xiii
Superior.		
Agates on.....	192	ix
Altitude of.....	112	vi
	151	viii
Amethyst on.....	193	ii
Analcite on.....	193	ii
	193	ix
Anthraxolite on.....	193	ii
Apophyllite and arragonite on..	193	ii
	194	ix
Barite on.....	195	ix
Basin of, notes on structure....	75-78	iii
section (hypothetical)..	77	iii
Canoe routes from, to various		
places in Michipicoten div..	289-292	A xiv
Chlorastrolite on.....	196	ix

	Page.	Vol.
Lake Superior.—<i>Con.</i>		
Copper on, azurite.....	195	ix
chalcopyrite.....	196	ix
chrysocolla.....	196	ix
cuprite.....	197	ix
malachite.....	202	ix
Copper mining on :—		
early.....	194, 255	R C
historical notes.....	92, 93	R C
paper by Coleman.....	120-174	viii
Delessite on, in amygdaloids.....	197	ix
Description of, by D. Thompson. 62, 63		iii
Effect of, on climate of north shore. 85		v
Fish in, trout.....	13	Bull. iii
Fluorite in.....	194	ii
Geological nomenclature of, re-		
port by International Com-		
mittee.....	269-277	A xiv
Geology of north shore.....	129-138	vi
Glaciation N. of, direction.....	49	R C
beaches.....	136	vi
	288	A xiv
altitudes.....	175, 176	ix
notes by Coleman.....	153	viii
	175, 176	ix
	193-199	A xv
photos.....	204, 205	vii
moraines.....	50	R C
Gold in.....	27, 114, 115	R C
Iron in.....	88	i
character.....	144	R C
melanterite.....	194	ii
siderite.....	194	ii
	209	ix
mining on.		
depression in, 1891.....	8	i
notes by Blue.....	65, 66	ii
Macfarlane.....	64	ii
output, estimated.....	21	xii
1888.....	xviii, 226	R C
1892.....	126	ii
exhaustibility of..	24	xi
Iron sand on, attempt to mine. 73, 74		A xiii
Laccolithic sills on.....	256	A xiv
notes by Lawson.....	170	A xv
Laumontite on.....	201	ix
Mineral pigments on, notes by		
Blue.....	177	i
Minerals on.....	205	R C
evidence before R. C.....	61-63	R C
list of.....	193, 194	i
Mining on, a pioneer's experience.		
	171-178	ii
Natrolite on.....	205	ix
North shore of, photos.. 173, 178, 179		A xv
report by Cole-		
man.....	146-148	viii
Prehnite in.....	207	ix
Rocks on, Cambrian.....	169	i
Huronian.....	18	R C
	70	i
	348, 349	A xiv
rep. by Coleman. 163-169		viii
Keweenawan.....	36, 67	R C
Nipigon.....	67	R C
notes by Bell.....	36-38	R C
photos.....	348-353	A xiv
Potsdam.....	40	R C

	Page.	Vol.		Page.	Vol.
Lake Superior.—Con.			Lake Superior Silver and Gold		
Rocks on.— <i>Con.</i>			Mill Reducing Works and		
syenites, paper by Cole-			Mg. Co.		
man.....	208-213	xi	Capital and date of charter.....	10	vii
trap.....	15	v	tp., HASTINGS CO.		
Routes from, to northwest.....	200	v	Chalcanthite in.....	196	ix
Scenery on.....	299	A xiv	Galena in.....	198	ix
Silver in, discovery.....	33	R C	<i>See also</i> Katherine mine.		
evidence before R. C.			Gold in.....	28	R C
194-202		R C	prospecting.....	92	vii
<i>See also</i> Silver Islet m.			Iron ore from, at World's Fair... 80		ii
Sylvanite on.....	194	ii	Mispickel in.....	205	ix
Thomsonite on.....	210	ix	Old name of.....	15	ii
Timber on tributaries of.....	120	iv	Tremolite in.....	211	ix
Waterpower between, and L.			Zinc mining in. <i>See</i> Katherine		
Huron.....	14	A xv	mine.		
Zeolites in amygdaloids on.....	212	ix	Winnipeg, MAN. AND KEE.		
Zinc blende in.....	209	ix	Remnant of L. Agassiz.....	9	iv
<i>See also</i> Gesic and Zenith mines.			Lakefield, DOURO TP., PETERBOROUGH		
Superior iron mine, ISHPEM-			CO.		
ING, MICH.			Cement works at.....	32	xi
Notes on, by Coleman.....	152	ix	<i>See also</i> next refs.		
Superior Mining Co.			Portland Cement Co.		
Capital and date of charter.....	10	vii	Analysis of clay and marl used by. 183	A xiv	
Superior Mining div.			Cement of, report by Gillespie		
Creation of.....	316	R C	on value.....	19	A xv
Superior (NATIVE) Copper Co.			Notes on, 1900.....	17	x
Capital and date of charter.....	10	vii	1901.....	32	xi
Michipicoten mine acquired by.. 103		R C	1902.....	31, 35	xii
Mining by, L. Superior.....	102, 103	R C	1905 and photos . 148, 149	A xiv	
Superior Power Co.			Operating, 1903.....	17	A xiii
Dock of, photos... 102, 103, 192, 193		x	1905.....	17	A xv
Ferro-nickel process of.....	222, 223	ix	Lakeport, HALDIMAND TP., NORTH-		
Financial difficulties of.....	6, 58, 87	A xiii	UMBERLAND CO.		
mines idle.....	82	A xiii	Gravel bar near.....	239	A xiii
removed.....	59	A xiv	Lakeside Gold Mine Co.		
Map by, of Ont., for Pan-Ameri-			Capital and date of charter.....	10	vii
can Exhibition.....	85-87, 90	xi	Lakeville, LITCHFIELD CO., U. S.		
Map by, of Michipicoten div.....	175	A xv	Blast furnace erected at, 1762... 342		R C
Road making by, 1900.....	288	A xiv	Lalonde, F.		x
Stone and brick producing by. 28, 29		xii	J.		x
Waterpower utilized by.....	14	A xv	<i>farm, NEAR COMBER, ESSEX CO.</i>		
Work by, Michipicoten div.....	35	x	Oil on.....	158	R C
	152	xi	L'Amable. See Detlor.		
	172	A xv	Lamarshe, Ernest		viii
	172	A xv	La Mascotte gold mine, WHITEFISH		
Helen mine.....	54, 137	x	BAY, L. OF THE WOODS.		
	71, 265	xi	Notes on.....	43, 44, 112	vii
	38	xii		73	x
	70	A xv	Lamb, Robert Ormston		
	22	A xvi	Evidence, by, <i>re</i> royalties in Gt.		
licence to.....	66	xii	Britain.....	15	i
Work by, Nipigon Lake dist....	24	xi	Lambe, Lawrence M.		
	105	A xvi	Determination by, of fossils from		
Work by, Sault Ste. Marie....	61, 63	x	Port Colborne.....	35	xi
canal making.....	92	xi	Lambert Island, LOON LAKE, TH.B.D.		
notes by Goodwin	66, 67	xi	Greywacké on.....	255	A xiv
plant, photo.....	96, 97	x	mill, HIGHLAND CREEK, GRIF-		
steel-mill of.....	25	xi	FITH TP., RENFREW CO.		
Work by, Sudbury dist.....	99	ix	Syenite at.....	224	viii
	20	xi	Lambs quarters, (WEED).		
	15, 65, 143, 144	C xiv	Night-hawk lake.....	123	A xiii
Creighton tp.....	17, 19	xii	Lambton co.		
Drury tp.....	195	A xiii	Asphaltum in.....	193	ii
Elsie mine... 46, 249, 287		xii	Brick-yards in, notes on.....	74, 75	B xv
Gertrude mine.....	36	x	Corniferous and Hamilton forma-		
	64	xi	tions in.....	25	B xiii
	287	xii	Chemung and Portage formation		
Levack tp.....	197	A xiii	in.....	47	R C

	Page.	Vol.		Page.	Vol.
Lambton co.—Con.			Lancaster (BRONSON) farm, DUN-		
Limestone in, notes by Miller...	68	B xiii	GANNON TP., HASTINGS CO.		
Oil in, notes by Blue.....	178	i	Beaches on.....	177	ix
industry, 1903.....	23, 24	A xiii	Nepheline on, notes by Coleman.	252	viii
report by Corkill... 111, 112		A xiv	Photo of falls near.....	232, 233	viii
wells, number....	89	A xiv	tp., GLENGARRY CO.		
Salina formation in, thickness...	98	A xiv	Calciferos formation in. <i>See</i>		
Salt works in, number, 1897....	24	vii	Glennevis.		
1898.....	17	viii	Lancy oil well, PETROLEA.		
mills, YORK TP., YORK CO.			Method of drilling.....	161	R C
Iroquois beach at.....	229	A xiii	Production of.....	24	vi
Lamellibranchiata.			Land, —?		
Abitibi river.....	188	viii	Nickel-plating by.....	159	ii
Anderson tp.....	125	xi	John		
Kwataboahagan river, notes by			Mica claim of, Ferguson tp.....	280	v
Parks.....	188	A xiii	and Immigration Co.		
St. Marys, near.....	96	B xiii	Prospecting by, Haliburton co... 47		xi
Lamont. <i>See</i> Widdifield.			plaster.		
Lamorandiere bay, RUTHERFORD			<i>See also</i> Gypsum.		
TP., ALG.			Definition of.....	21	A xiii
Rocks on and near.....	83	i	Landers, Thomas		
crystalline schists.....	80	i	Brick-making by, Hamilton.....	106	B xv
limestone, analysis.....	31	B xiii	Landon, —?	75, 86, 87	vi
for burning.....	94	i	Lands, mining <i>See</i> Mining lands.		
notes by Bell.....	30	B xiii	Lands Corporation of Michipicoten.	105	viii
ornamental stone.....	93	i		117	ix
Lamp portage, DOG RIVER, L SU-			Landslides.		
PERIOR.			Blanche River basin, L. Timis-		
Striae at, direction.....	178	ix	kaming.....	215	xi
Lamplugh, George William	144	vii	Moose River basin.....	147	A xiii
Lampshire, Harry	28	ix	Lane, A. C.		
Lamson, John	276	vi	Report by (and others) on Pre-		
William	276	vi	Cambrian nomenclature... 269-277		A xiv
Lanark, LANARK TP., LANARK CO.			Lang, John L.	184	A xiv
Limestone from, analysis.....	70	B xiii	Langdon, James	58	xii
Oligoclase in.....	194	ii		86	A xiii
co.			John G.		
Apatite mining in, early.....	436	R C	Director, Hamilton Steel and Iron		
Brick making in, notes on... 75, 76		B xv	Co.....	29	iv
Corundum in.....	205, 225	viii	Work by, at Port Henry, N. Y..	330	xii
Iron ores of, character.....	392	R C	N. M.	341	xii
notes by Birkinbine.			Lange, Jensen & Co.		
323, 324		R C	Stove of, for burning peat, des-		
Limestone in, notes by Miller...	70	B xiii	cription.....	227	xii
Mineral pigments in.....	177	i	Langer, Dr. Carl		
Palaeozoic rocks in.....	22	B xiii	Photo of.....	209	xii
Potsdam.....	40	R C	Nickel extraction process of. <i>See</i>		
Topography of, character.....	437	R C	Ludwig.		
County Peat Fuel Co.	9	x	Langevin, Rev. L. P. A.		
	204	xii	History by, of Fort Frances.....	162	v
tp., LANARK CO.			Langford, Henry		
Calcite in....	193	ii	District Crown Attorney, Kenora.	67	vi
Limestone in.....	102	B xiii	Gold mining by, L. of the Woods.	52	x
analysis.....	70, 71	B xiii	Langley, William A.	156	vi
Lancashire, ENGLAND.			Langrill, A. S.	162	A xiv
Iron industry of, Spanish ore			Langshytta, SWEDEN.		
used in.....	121	ii	Iron ores of.....	479	R C
ore in, royalty on.....	22	i	<i>Lanius borealis. <i>See</i> Shrike, north-</i>		
Lancaster farm, DUNGANNON TP.			<i>ern</i>		
<i>See</i> Bronson.			Lansdowne, LANSDOWNE TP., LEEDS		
Gap, PENN.			co.		
Nickel mine at.....	213	ix	Clay plain near.....	241	A xiii
	149	C xiv	tp., LEEDS CO.		
exhaustion.....	28	vii	Barite in.....	195	ix
method of treatment.....	404	R C	Celestite in.....	196	ix
output.....	182	iv	Galena in.....	198	ix
pyrrhotite in, analysis... 163		ii	Iron furnace in. <i>See</i> Lyndhurst.		
shut down, 1891.....	131	ii	Lantin, Patrick	49, 57	xi
			Lanz & Son, M.	120	ii

	Page.	Vol.		Page.	Vol.
Lapis lazuli. See Lazurite.			La Rose silver mine.—Con.		
Lapland.			Position of.....	7 A	xv
Peat in.....	219	ii	Pyrargyrite crystals from, diagram.....	14 B	xiv
Larch. See Tamarack.			Rocks at and near:—		
saw=fly. See Saw-fly, larch			breccia, analysis.....	48 B	xiv
Larchwood, BALFOUR TP., ALG.			diabase and slate.....	27, 49 B	xiv
Agricultural land near.....	105, 106	C xiv		52 A	xvi
Minor ref. to.....	198	A xiii	Specimens from, for Louisiana		
Rapids at.....	207	A xiii	Exhibition.....	17, 18 F	xiv
Sandstone at and near.....	86	i	Vein (main) in, dike-like.....	37 B	xiv
notes by Coleman.....	10, 97-100	C xiv	photo.....	60 B	xiv
photo.....	99	C xiv	strike.....	36 B	xiv
quarried.....	93	i	White bloom in.....	18 B	xiv
Slate near.....	5	C xiv	See also Appendix to this Index.		
Larder city, LARDER LAKE, NIP.			Mining Co.	13 A	xvi
Fault north of.....	214	A xvi	Larson, D. A.	72	viii
Rocks at and near.....	208, 215	A xvi	Gus		
Mining recorder's office at.....	36	A xvi	Gold mining by, Van Horne tp..	244	xi
(PRESENT) lake, NIP.			Manager, Redeemer mine.....	66 A	xiii
Description and geology of, by			Larue, —?		
Miller.....	219, 220	xi	Pioneer of Radnor Forges furnace.	24	ii
Gold on, discovery.....	6, 55, 219	A xvi	La Rue, W. G.	273	viii
Perch in.....	221	xi		71	ix
Report on and vicinity (with			<i>Larus argentatus smithsonianus.</i> See		
map) by Brock.....	202-218	A xvi	Gull, American Herring		
ref. to.....	2	A xvi	" <i>atricilla.</i> See Gull, black		
Rocks on and near:—			headed		
dolomite.....	221	A xvi	Lash, Miller	133 A	xiv
notes and photos.....	204-216	A xvi	tp., R. R. D.....	167	v
petrographical.....	229	xi	L'Assomption river, St. LAWRENCE		
Lake Gold Mg. Co.			RIVER, QUE.		
Capital and date of charter.....	28	A xvi	Cobalt and nickel on.....	443	R C
Lake Mines. See Reddick			Last, Arthur	104 A	xv
gold claims.			Chance gold mine, MATAGAM-		
Lake Mg. div.			ASING LAKE, WANAPITEI L.		
Creation of.....	36	A xvi	DIST., NIP.		
Description of.....	45	A xvi	Notes on, 1896.....	269	vi
Lardintown, BUTLER CO., PENN.			1897.....	87, 140	vii
Anticline at.....	148	i	pt., L. OF THE WOODS, R.R.D.		
Lardner, W. P.			Gneiss at.....	102	vi
Barytes claim of, McKellar island.	276	v	Latchford, COLEMAN TP., NIP.		
La Reine Gold Mg. Co.			Mining class at.....	53 A	xvi
Capital and date of charter.....	10	vii	recorder's office at.....	36 A	xvi
<i>Larix amer'cana.</i> See Tamarack.			Slates near.....	47 B	xiv
Larkins, J. P.	234	ii	Water-courses near.....	35, 36 B	xiv
Larmond (OR L'ARMOUR), Peter.	47, 48	xii	Silver Mg. Co.		
Larnach, Hon. W. J. M.	513	R C	Capital and date of charter.....	28 A	xvi
La Rose, Frederick			<i>Lathyrus maritimus.</i> See Pea, wild		
Discoverer of La Rose silver mine.	7	A xvi	" <i>ochroleucus.</i>		
Joseph			Mattagami valley.....	150 A	xv
Discoverer of Last Chance silver			" <i>palustris.</i>		
mine.....	269	vi	Mattagami valley.....	150 A	xv
silver mine, COBALT, NIP.			Latimer, J. F.		
Boring in, with Govt. drill....	27, 28	A xv	Evidence by, before R.C. re:—		
Chloanthite from, analysis.....	19	B xiv	gold mining, L. of the Woods..	116	R C
Cobalt bloom in.....	18	B xiv	prospector's rights.....	316	R C
Discovery of.....	7	A xvi	Latour, Eli	26	A xiv
Dyscrasite from.....	23	B xiv	Laughlin, Alexander	17	A xvi
Minor ref. to.....	15	B xiv	Laughton, M.	117	ix
Notes on, 1905.....	73, 74	A xv	Laumontite.		
Nicolite from, analysis.....	19	B xiv	Associated with copper.....	192	ii
Ore of, percentage of nickel in...	25	B xiv	Lake Superior amygdaloids.....	201	ix
Owners of.....	5	A xiv	Lauray, Jacob	54-57	xi
Photos of.....	50, 52	B xiv			
cobbing and sacking.....	56	B xiv			
vein.....	60	B xiv			
underground.....	55	B xiv			

	Page.	Vol.
Laurentian.		
Apatite in, notes by Penrose....	437	R C
origin.....	443	R C
Distribution and character, notes		
by Bell.....	7-13	R C
Logan's views on.....	244	V
Named by Logan.....	4	R C
Notes on, by Bell and Shaler....	169	i
Logan, Adams and		
Van Hise.....	194	V
Origin of.....	13-16	R C
Paper on, by Bell.....	6-10	R C
245-249		V
Petrographical notes on.....	154-156	vii
Quebec, north of Ottawa river,		
thickness.....	168	i
Relationship of, with Huronian.	94	V
209		vii
Restricted use of the term.....		vii B xiii
<hr style="width: 20%; margin: 10px auto;"/>		
Algoma dist. :—		
Abitibi river, contact with Hur-		
onian.....	193	viii
Frederick House river, contact		
with Huronian.....	178	viii
L. Huron, N. of, notes by Cole-		
man.....	163	viii
Michipicoten div., contact with		
Huronian.....	188	vii
140, 146		viii
151		xi
notes by Willmott.....	7 Bull.	iii
paper by Bell.....	63-94	i
Sudbury dist., character. 2, 4, 9, 10		c xiv
Copper Cliff, contact with		
Huronian.....	145	vii
Boston tp.....	262	A xiv
Cobalt dist., contact with Keewa-		
tin.....	45, 46	B xiv
description.....	40	B xiv
Hastings co., corundum in.....	210	vii
Lac des Mille Lacs.....	72	vi
Lake Superior, contact with Hur-		
onian, photo.....	349	A xiv
Larder Lake dist.....	203, 206	A xvi
notes by Brock.....	210	A xvi
Otto tp., contact with Huronian.	178	xii
Rainy River dist. :—		
L. of the Woods, contact with		
Huronian.....	25	iii
100, 102		vi
110, 111, 115, 119, 146		vii
map showing.....	12	iii
Little Turtle lake, contact with		
Huronian..	129	vii
Manitou lake.....	84	vi
notes by Coleman.....	114-123	vi
Rainy Lake region :—		
barrenness of.....	52	iv
distribution.....	47-50	iv
petrography.....	77-81	iv
Sawbill lake, gold in.....	4 Bull.	i
Seine River dist.....	77	v
Renfrew co., corundum in.....	210	v j
Sundridge.....	54	'
Timagami Lake region.....	56, 57	R C
162, 163		x

	Page.	Vol.
Laurentian gold mine, NEAR GOLD		
ROCK, MANITOU LAKE, R.R.D.		
Minor ref. to.....	4	A xiv
Notes on, 1904.....	42, 52	A xiv
1905 and photos....	50, 51	A xv
by Belyea.....	43, 57, 58	A xvi
Producing, 1906.....	6	A xvi
rich ore, 1905.....	4, 47	A xv
Mg. Co.		
Capital and date of charter.....	5	xii
Work by, 1904.....	52	A xiv
Stone Co.		
Capital and date of charter.....	11	xi
Laurentide Mica Co.		
Factories of, notes on.....	90, 91	A xvi
Mica trimming works of, Ottawa.	86	A xiv
105		A xv
Laurie, —?	57	i
Laurin, Joseph	27	ix
Laurvik, NORWAY.		
Analysis of laurvikite from.....	211	xi
Laurvikite.		
Byskoven, Norway, analysis....	211	xi
Lauzon, A. See Lawlor and Lauzon.		
Lavaltrie tp., BERTHIER CO., QUE.		
Peat in.....	198	ii
Lavanburgh, Fred L.	122	xi
Lavant, LAVANT TP., LANARK CO.		
Mica-schist between, and Flower.	101	B xiii
iron mine. See Wilbur iron		
mine.		
Mining Co.		
Capital and date of charter.....	10	vii
tp., LANARK CO.		
Barite in.....	195	ix
Chalcopyrite in.....	196	ix
Gold in.....	199	ix
204		xi
Iron ore in.....	137	R C
character.....	392	R C
exhibited at World's Fair... .	78-81	ii
magnetite.....	202	ix
quality.....	191	ii
mining.....	59	ii
evidence before R. C....	140, 141	R C
notes by Morris.....	137	R C
See also Caldwell m.		
Wilbur m.		
Marl in.....	122	A xiv
analysis.....	71, 72	B xiii
Mica in.....	203	ix
Lavas.		
Sudbury dist., notes by Coleman.		
118-120		C xiv
Lavase lake, NEAR PANACHE LAKE,*		
ALG.		
Limestone near, description.....	29	B xiii
Lavin, —?	157	V
Lavoisier, Antoine Laurent		
Aluminium discovered by.....	173	i
Law, S.	104	viii
117		ix
William S.	61	i
Lawlor, J. H. See next ref.		

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	Page.	Vol.		Page.	Vol.
Lead.—Con.			Leadville, LAKE CO., COL.		
Hastings co.— <i>Con.</i>			Galena in silver veins at.....	202	R C
Hollandia mine.....	15	A xiv	Mining Co.		
See also Hollandia m.			Capital and date of charter.....	9	viii
Katherine m.			Leafield, CARDIFF TP., HALIBURTON CO.		
Jackfish lake, Th. B. d.....	76, 77	v	Corundum near.....	216	viii
Lake of the Woods.....	20	iii	Leamington, MERSEA TP., ESSEX CO.		
K 157 island.....	104	vi	Brickyard at, notes on.....	64	B xv
Mikado mine.....	106	vi	Corniferous formation at, thick-		
Lake Superior and Port Arthur			ness.....	47	R C
dist.....	61-63	R C	Natural gas in and near . 20, 21,	114	A xiv
Black bay.....	10, 36, 37	R C	price.....	23	A xv
	87	A xiii	revenue.....	19	vii
Dorion tp.....	37	R C	supply.....	29	v
	59	A xiii		42-44	xi
Goulais river.....	60, 203	R C		39	xii
Jackfish bay.....	26	R C		91	A xiv
	86	x		25	A xvi
Kaministikwia.....	194	ii	use of, notes... 25, 26		vi
Silver islet.....	86	v	Oil near. See Leamington oil-		
	139	vi	field.		
Silver lake.....	170	A xv	Petition made by, re export of		
silver mines.....	146	R C	gas to Detroit.....	41	xi
	54-58	B xiv	Trenton formation at.....	113	A xv
argentiferous.....	191	ii	Water from, analysis.....	58	i
Silver Creek m.....	203	R C	Comber Oil Co.		
Three A m.	28	R C	Capital and date of charter.....	26	A xv
Wolf river.....	38	R C	Oil Co.		
	15	A xiv	Borings by.....	116	A xiv
Larder Lake dist.....	214, 215	A xvi	Capital and date of charter.....	25	A xiv
Sault Ste. Marie region.....	205	R C	Leamington supplied by, with gas.	25	A xvi
Echo lake.....	147	R C	Work by, 1905.....	22	A xv
evidence before R. C.....	59, 60	R C	1906.....	96	A xvi
Garden river.....	147, 203	R C	oil-field, ESSEX CO.		
notes by Bell.....	29	R C	Oil in.....	20, 21, 89	A xiv
Sudbury deposits.....	29	R C	boring for.....	25	v
	91, 92	i		21, 112, 114	A xv
	282	xii		115, 116	A xiv
	95, 161	C xiv	notes by Corkill... ..	90	A xiv
associated with iron.....	59	R C	production, 1905.....	108	A xv
Drury tp.....	203	R C	1906.....	24	A xvi
Graham tp.....	106, 425	R C	Work in, by Acme Oil Co.....	92	A xvi
Fairbank tp.....	105	R C	Leamy lake, NEAR HULL, QUE.		
Moncrieff tp.....	106	R C	Cement works on.....	146	A xiv
Straight lake.....	106	R C	Leap Year Consolidated Gold Mg.		
Timagami Lake region.....	56, 58	R C	Co.		
Cross lake, argentiferous.....	180	x	Capital and date of charter.....	10	vii
	101	A xiii	Learned, Edward		
	24	B xiv	Interested in Silver Islet mine..	195	R C
Lady Evelyn lake.....	24	B xiv	141, 152, 155, 156		vi
Timiskaming lake:			Leavenworth, LEAVENWORTH CO.,		
Baie des Peres.....	180	x	KAN.		
Wright's silver mine.....	101	A xiii	Paving clay from, analysis.....	120	iii
	24	B xiv	Leavitt, T. H.		
	7	A xvi	Peat drying process of, notes... 197		i
Trout lake, Bennett tp.....	201	A xiii	Notes by, on peat for locomotives.	203, 204	i
	71	C xiv	Leckie, Major Robert G.		
arsenate.			Arsenic mining by, near Tima-		
Composition and use of.....	113	xi	gami.....	73	A xiv
carbonate. See Cerusite.				23, 88	A xv
molybdate. See Wulfenite.			Director, Massey Station Mg. Co.	267	xi
pencils.			Iron pyrites mining by, James		
Works for, Stein, Bavaria.....	37	vi	lake.....	20	A xv
vitriol. See Anglesite.			Part owner, Creighton mine....	99	ix
Leadhills, LANARK CO., SCOTLAND.			Massey Copper m..	120	x
Gol mining near.....	92, 115	R C	Statement by, re proposed smelter,		
mine, McTAVISH TP. See Enter-			Georgian bay.....	261	ix
prise mine.					

	Page.	Vol.		Page.	Vol.
LeClair, E. T.			Ledyard iron mine.—Con.		
President, Boulder Gold Mg. Co.	61	viii	Notes on, 1891.....	236, 237	i
LeCreusot, SAÔNE-ET-LOIRE, FRANCE.			by Ledyard (and an- alysis).....	59, 60	ii
Foundry at, notes on.....	176	c xiv	Ore from, at World's Fair	80	ii
molybdenum used in.....	46	xi	tests on.....	78 A	xiv
Leda arctica.			Lee—?		
Ottawa (near)	216	x	Attempt by, to mine lead, Clin- ton tp.....	73 B	xiii
“ (Portlandia) arctica.	32	B xv	Frederick.	52, 57	xi
Ottawa.....	224	x	Harry A.		
“ pygmaea.			Paper by, on use and abuse of dynamite.....	284-287	v
Greens creek, near Ottawa.....	224	x	Joseph.	204	iv
Leda clay.			Blain station, PORT ARTHUR- DULUTH RY., TH. B. D.		
Analyses, notes and photos ...	31-33	B xv	Gold mining near.....	231	iv
Arnprior, for bricks.....	96	B xv	=mills iron mine, EASTERN ONT.	86	xi
Carleton Place, for bricks.....	75	B xv	Leeches.		
Casselman, “.....	97, 98	B xv	Abitibi dist.....	127 A	xiii
Economic uses of.....	227	x	Lac des Mille Lacs.....	135	v
Ottawa dist., for bricks.....	215	x	Leechman, John		
Billings Bridge.....	61	B xv	Mill superintendent, Regina mine.	253, 255	vi
Lederite. See Titanite.			Notes by, on Regina mine	92	vi
Ledoux, Dr. A. R.			Leede, Julius See Leede furnace.		
Analysis by, of iron ore, Belmont tp.....	60	ii	furnace.		
Assays by, of silver ores, Cobalt.	12	A xvi	Adopted at Gold Hill mine..	232, 235	ii
Ledum.			Description of.....	24	iii
On peat bogs.....	139	iii	Leeds co.		
of Germany.....	213	ii	Apatite mining in, early.....	436	R C
“ latifolium. See Labrador tea.			Brick-yards in, notes on.....	76, 77	B xv
Ledyard, E. D.....	234	iv	Chondrodite in	193	ii
Thomas D.			Paleozoic rocks in.....	22	B xiii
Belmont iron mine owned by... 47	59	ii	Potsdam.....	40	R C
See also Ledyard iron m.			Topography of, character.....	437	R C
Estimate by, of cost of working iron ore in Ont.....	334	R C	tp., LEEDS CO.		
iron ores, Haliburton dist.....	103	ii	Dikes in, containing nickel.....	220	v
extract.....	59, 60	ii	See also Seely Bay.		
Exhibit of, at World's Fair.....	79-81	ii	Serpentine mining in.....	297	xi
Mining agent	238	ii	13 A	xiii	
Notes by, on Belmont Bessemer Ore Co.....	249	iv	Leek island, ST. LAWRENCE RIVER.		
President, Ledyard G. M. Co.	234, 235	iv	Granite quarrying on.....	296	xi
Views of, on iron industry of Ont.....	114-116	ii	Leeman, H.....	102 A	xv
gold mine, BELMONT TP., PE- TERBOROUGH CO.			Leetham, E. L.....	86	ix
Mill at.....	4	iv	E. S.....	128, 129	x
Notes on.....	51, 52	iii	Leferre, E.....	142	x
234	iv		L.....	142	x
263	v		Lefevre, E. C.	24	vi
58	vi		Lefforriere, L.....	142	x
Position of.....	193	xi	74	xi	
Quartz of, character.....	36	iv	Legarde, F.....	117	ix
Rocks of.....	193, 194	xi	J.....	104	vii
Gold Mines Co.			Legault, George.....	44, 48	xii
Capital and date of charter.....	234	iv	Legge, C. H. AND Joshua		
10	vii		Gold mining by, Michipicoten div.....	104	vii
iron mine, BELMONT TP., PE- TERBOROUGH CO.			104	viii	
Estimate of cost of making pig iron at.....	334, 335, 394	R C	114, 117	ix	
Intention re, 1894.....	250	iv	139, 142	x	
			74	xi	
			66	xii	
			48 A	xiii	
			L.....	181, 104	viii
			Leggett and Bros.....	122	xi
			Legris, James.....	53 A	xiii
			Legrow, Jerry.....	48	x
			Le Heup.....	40 A	xiv

	Page.	Vol.		Page.	Vol.	
Lehigh mt., LEHIGH CO., PENN.			Lepidomelane.			
Iron ore of	347	R C	Occurrences of, and analysis	201	ix	
Portland Cement Co.			<i>Leptaena.</i>			
Capital and date of charter.....	28	A xvi	Gore Bay	77	B xiii	
river, DELAWARE RIVER, U.S.			" <i>rhomboidalis.</i>			
Iron ores on.....	474	R C	Anderdon tp.....	125	xi	
mining.....	118	ii	Cayuga N. tp.....	146	xii	
Ordinance works on	140	ii	Hagersville	148	xii	
University, PENN.			Port Colborne, near	35	xi	
Notes on, by Richards.....	510	R C	St. Marys	152	xii	
Lehmann, Dr. Adolf			Walpole tp.....	144	xii	
Analysis by, of corundum	238	vii	" <i>sericea.</i>			
Leishmann and Maundrell.....	20	vii	Trent river	89	B xiii	
Leitch, George.....	136	i	<i>Leptostropha.</i>			
P. A.....	105, 127	A xvi	Kwataboahagan river.....	186	A xiii	
Leith, Dr. C. K.			Lequerre lake, SEINE RIVER DIST.,			
Benn cobalt mine bought by....	11	A xv	R. R. D.			
owned by (and			Gold mining on. <i>See</i> Roy Gold			
friends) ..27,	28	A xv	Mg. Co.			
Notes by, on glauconite and			Lequyer, Adolphe			
greenalite.....	164, 166	A xiv	Gold mining by, Seine river.....	133	vii	
Paper, by on Moose Mt. iron				42	viii	
range.....	318-321	xii		80	ix	
refs. to.....	5, 21, 299	xii	Leroy, GENESSEE CO. N. Y.			
	216	A xiii	Fossils from	184	A xiii	
Ref. to review by, on Miller's Co-			lake, FIRE-SAND RIVER, MICH-			
balt report.....	7	B xiv	PICOTEN RIVER, ALG.			
Ref. to work by, on Mesabi iron			Huronian rocks near	146	viii	
range.....	258	A xiv	Lesage, J.	142	x	
	159, 164	A xv	Lesley, J. P.			
Report by, and others, on Pre-			Notes by, on cross anticlines....	161	i	
Cambrian nomenclature....	269-277	A xiv	Views of, on origin of oil and gas.	144, 145, 150, 157,	158	
Lek river, HOLLAND.					i	
Brick kilns along, peat used in..	216	ii	Letellier, J. T.....	66	xii	
Leland, Charles F.....	71	ix		48	A xiii	
Leland, LECLANAU CO., MICH.			Lethbridge, Charles			
Record of iron furnace in	339	R C	Brick-yard of, Sault Ste. Marie,			
Lemieux, C.....	66	xii	notes.....	57	B xv	
F. F.			Lethbridge, (COAL BANKS), ALTA.			
Recorder, Sudbury mg. div.....	36	A xvi	Lignite of	161	A xiii	
Report by, on Sudbury mg. div.			Lettuce.			
	39,	40	A xvi	Mentioned as growing at:—		
J. B.....	104	vii	Abitibi lake.....	50	A xvi	
M.....	74	xi	Matachewan	240	A xiv	
Lemoyne, Capt. William.....	87	vii	New Post.....	186	viii	
Lennox, Hans.....	32,	33	vii	Leucopyrite (arsenical iron).		
Lennox—?	80	xii	Carrying arsenic	101	xi	
Lennox tp., ALG.			Description of	221	vi	
Soil and timber in.....	142	A xv	Leucoxene.			
Leo Mining and Development Co.			Barriefield common, Kingston..	201	ix	
Capital and date of charter.....	9	x	Leuiller, A.			
Work by, near Middleton	87	x	Gold mining by, Manitou lake. 85, 87		vi	
Leoben, STYRIA, AUSTRIA.				123	vii	
Mining school at.....	501, 513	R C	Leushner, Frank E.			
Leonard, R. W. <i>See</i> Coniagas silver			Accident to.....	49, 57	xi	
mine.			Mica claim owned by, Bedford tp.	135	x	
Le Page, Phillip			Frederick P.....	279	v	
Gold prospecting by, Little Turtle			Levack properties, LEVACK TP.,			
lake.....	71	vii	ALG.			
Leper, T. C.			Ilmenite in.....	162	C xiv	
Experience of, as well-borer.....	127	i	Magnetically surveyed.....	67	C xiv	
<i>Leperdûia.</i>			Photo of	208, 209	A xiii	
Winchester tp.	40	B xiii	Rocks on.....	198	A xiii	
<i>Lepidium virginicum.</i>				68	C xiv	
Abitibi Lake dist	242	A xiv	norite, petrographical notes... 211	A xiii		
Lepidolite.			tp., ALG.			
Mode of occurrence.....	226	vi	Copper and iron pyrites in.....	434	R C	
Utoe island, Sweden.....	472	R C	Nickel ore in, character.....	89	i	
			prospecting for ...	274	v	

	Page.	Vol.		Page.	Vol.
Levack tp., ALG.—Con.			Lewis tp., ALG.		
Ore deposits in, notes by Coleman	197 A	xiii	Copper mining north of	63 A	xiv
See also Strathcona m.	65-67 C	xiv	Lewiston, ANDROSCOGGIN CO., ME.		
Rocks in, granite	84	i	Gravel bar at	227 A	xiii
greenstone	75	i	Iroquois beach at	233 A	xiii
nickel eruptive	68 C	xiv	Waterpower at	485	R C
norite, petrography ..	211 A	xiii	Lexington, MIDDLESEX CO., MASS.		
peridotite	121 C	xiv	Peat drying experiments at	197	i
Levat, David			Liars.		
Paper by, on metallurgy of nickel... 149-162		ii	Mining engineers	168	i
ref. to	132	ii	Lias shales.		
Process of, for refining nickel... 146		ii	Alais, France	192 A	xvi
Ref. to description by, of treatment of Sudbury ores	236	xii	Liberts, RIAZAN PROV., RUSSIA.		
	3 C	xiv	Peat near	218	ii
Levesque, Joseph	51, 57	xi	Licences.		
Louis	443	R C	List of, issued in Michipicoten div. :—		
Levett and Davis mica mine, RID-BAU LAKE.			1897	101-106	vii
Notes on, 1893	193	iii	1898	102-105	viii
Levi, Leone			1899	115-118	ix
Notes by, on steel industry of Gt. Britain	360, 366	R C	1900	140-144	x
Levy —?			1901	73- 75	xi
Ref. to work by, on nepheline ..	227	vii	1902	65- 67	xii
creek, VERMILION RIVER, NIP.			Terms of	229	ii
Muskeg and clay on	37, 38	iv	Lichen		
Rocks near mouth of	37	iv	Eaten by Indians, in extremity..	86	vi
Huronian	46	iii		141	xii
Lewes, Prof. Vivian B.			Lichen island, RAINY LAKE, R. R. D.		
On acetylene gas	29	vi	Rocks on	81	iv
Paper by, on Commercial Synthesis of Hydro-carbons... 142-151		iv	Island Mining Co.		
ref. to	141	iv	Capital and date of charter	9	x
Lewis, A. E.	104	viii	Lichenalia.		
	104	ix	Hamilton	141	xii
	117	x	Lidgey, H.	246	ii
	142	x	Lievre river, OTTAWA RIVER, QUE.		
C. J.			Apatite deposits on	437	R C
Brick making by, Milton	66 B	xv	Lievrite. See Apatite.		
Prof. Carvill			Light, William		
Notes by, on origin of diamonds in Kimberley	122	ix	Brick yard of, Aylmer, notes... 62 B	xv	
D. D.	98	xi	Lightning.		
E.	104	vii	A cause of forest fires	177 A	xiii
F. S.	104	viii	Lignite.		
	117	ix	Analyses of standard	184	i
	142	x		166	vi
	74	xi		194	xii
G.	104	vii	As a fuel, notes on	166	vi
	104	viii		28, 29 A	xiii
J.			Definition of	161 A	xiii
Terra-cotta making, Milton	66 B	xv	Exhibited at World's Fair	193	ii
James F.	52	ix	Notes on, by Goodwin	219	vi
M.	66	xii	Occurrences. See Coal.		
	48 A	xiii	Lilienberg, N.		
W. H.			Kilns of, for magnetic ores	478	R C
Gold mining by, Michipicoten div.	104	viii	Lilium philadelphicum. See Lily,		
	117	ix	orange		
	139, 142	x	" <i>tigrum.</i> See Lily, tiger		
	74	xi	Lillin and Rochon.	53	v
	66	xii		65, 66	iv
	48 A	xiii	Lillooet, LILLOOET DIST., B.C.		
William O.	45	x	Souesite from	151 C	xiv
Foundry and Machine Co. ..	120	ii	Lily.		
			Lily lake, L. of the Woods dist. .	187	v
			orange		
			Obabicon lake, R.R. d.	118	vii
			Mattagami valley	150 A	xv
			pond		
			Moose River basin	177 A	xiii
			spotted		
			Abitibi dist.	253 A	xiv

	Page.	Vol.
Lily, tiger		
Moose River basin	177 A	xiii
water		
Atikokan river.....	144	v
creek, MARMORA TP., HASTINGS		
CO.	92	vii
creek, W. OF STURGEON LAKE,		
TH. B. AND R.R. DIST.	147	xi
lake, SMITH TP., PETERBORO		
CO.		
Clay from, for cement works....	148 A	xiv
lake, L. OF THE WOODS REG.,		
R. R. D.		
Rocks on ; name of.....	187	v
of the Valley silver mine,		
PAIPOONGE TP., TH. B. D.		
Inspector's report on, 1891.....	229	i
1892.....	241	ii
1894, idle.	237	iv
Limberger, Jacob.....	124	i
Lime.		
See also Lime kilns and Lime-		
stone.		
Burning and slaking of, notes by		
Miller	7-11 B	xiii
Canada, production, 1887	213	R C
1888	525	R C
Composition of.....	448	R C
Eddystone lighthouse, Eng.,		
analysis	107	i
Evil of free, in cement.....	125 A	xiv
Gas fuel for burning.....	126	i
106		ix
Guelph formation.....	45	R C
In paving brick, effect of.....	121	iii
Producers of, list, 1902.....	28	xii
Production, 1891.....	6	i
1892	7, 11	ii
1893	6, 10	iii
1894	11-13	iv
1895	11-13	v
1896	12, 13	-vi
1898	11, 12	viii
1899	12, 13	ix
1900.....	11, 12, 14	x
1901.....	12, 13, 30	xi
1902.....	12, 13, 27, 28	xii
1903.....	3, 13, 14 A	xiii
1904.....	1, 3, 16 A	xiv
1905.....	1, 4, 16 A	xv
1906.....	4, 6, 19 A	xvi
Teil, France, production.....	107	i
United States, duty on.....	132	i
production, 1887	213	R C
1888..	525	R C
Value of, as compared with		
cement.....	170, 171 A	xiv
Bridgewater marble for.....	82	R C
L. Huron, north shores	94	i
Milton, analysis.....	15 A	xiii
Port Colborne, for Niagara Falls		
calcium carbide plant.....	37	v
Rockland, for Ottawa Carbide Co.	21	x
kilns.		
Beachville, photos... 64, 65, 96,	97 B	xiii
Delta.....	64, 65 B	xiii
"Drawing" a, photo.....	16, 17 B	xiii

Lime.—Con.

Galt and Guelph.....	126, 127 B	xiii
Humberstone.....	134	i
Limehouse, photos.....		
16, 17, 32, 33, 64, 65 B		xiii
Milton, photo.....	16, 17 B	xii
Port Colborne, west of	35	xi
Rockwood, photo...16, 17, 126,	127 B	xiii
St. Marys.....	96, 126 B	xiii
Sherkston quarry, photo... 126,	127 B	xiii
lake, HUNGERFORD TP., HAST-		
INGS CO.		
Marl from	137 A	xiv
paste.		
use of.....	173 A	xiv
phosphate of See Apatite.		
tungstate of See Scheelite.		
water.		
Notes on, by Miller.....	6, 13 B	xiii
Limehouse, ESQUESING TP., HALTON		
CO.		
Cement at	177	i
works at.....	108	i
See also Toronto Lime		
Co.		
Iron at (native).....	200	ix
Lime kilns at	14 A	xiii
photos.16,17,32,33,64, 65 B		xiii
Limestone quarries at, analysis..	58 B	xiii
Mineral pigments at	177	i
made fire-proof.	79	R C
Limerick, IRELAND.....	202	i
TP., HASTINGS CO.		
Galena in.....	198	ix
mining	30	R C
Limerock, LITCHFIELD CO., CONN.		
Iron forge erected at, 1734.....	342	R C
Limestone.		
Analysis of, used by cement cos.	183 A	xiv
Argenteuil, Que.....	11	R C
As a building-stone.....	135	iii
notes by Miller.....	3, 4 B	xiii
Association of, with hematite... 466		R C
salt and gyp-		
sum.....	120	R C
Cement made with.....	106	i
Composition and formation of ..	537	R C
2-5		vi
Exhibit of, at World's Fair.....	186	ii
Findlay gas-field, Ohio.....	120	i
Hull, Que., for cement.....	146 A	xiv
Laurentian, origin of.....	13	R C
Ontario, report by Miller	Pt. B	xiii
eastern, report by Parks		
on fossiliferous....141-156		xii
Origin and nature of.....	9-21 B	xiii
Portland island, England	118 A	xiv
Proportion of, in glass.....118, 119		xi
Quarrying industry, 1890....95-100		i
St. John, N.B., notes on industry. 10 B		xiii
Test for.....	450	R C
uses of.....	2-14 B	xiii
Algoma dist	26-33 B	xiii
Cartier, near ; Geneva lake....	94	i
French river.....	192	viii
Garden River.....	160	viii

	Page.	Vol.
Limestone.—Con.		
Algoma dist.—Con.		
Lake Huron	94	i
Manitoulin island	75-80	B xiii
St. Joseph island	178	ii
Kwataboahagan river, photo of, with fossils	192, 193	A xiii
Little Abitibi river, fossils....	187	viii
Panache lake	94	i
Brant co.	33-34	B xiii
Paris, analysis	147	xii
Bruce co.	34-37	B xiii
Carleton co.	37-39	B xiii
Dufferin and Dundas cos	39, 40	B xiii
Durham and Elgin cos.	40, 41	B xiii
Essex co.	41-43	B xiii
Anderdon tp., quarried	126	xi
Frontenac co.	43-46	B xiii
Glengarry co.	46-48	B xiii
Grenville and Grey cos	48-51	B xiii
Haldimand co.	51-56	B xiii
Hagersville, analysis	145	xii
fossils	144-147	xii
Springvale, analysis	144	xii
Haliburton co.	56, 57	B xiii
Halton co.	57-59	B xiii
Milton	55	i
Hastings co.	59-66	B xiii
Crookston, quarried	99	vii
48		viii
ThurLOW tp., analysis	33, 34	xii
Belleville (near)	133	A xiv
photo	134	A xiv
Huron and Kent cos.	66-68	B xiii
Lambton co.	68-70	B xiii
Lanark co.	70-73	B xiii
associated with iron	138, 139	R C
Bathurst tp.	137	R C
Smiths Falls	59	i
Lennox and Addington co.	26-29, 73	B xiii
Lincoln co.	73, 75	B xiii
Queenston, for building	14	A xiii
Middlesex co.	80	B xiii
Muskoka dist	81	B xiii
Nipissing dist.	81-88	B xiii
Abitibi river	190	viii
Sextant rapid, photo.	200, 201	viii
Haileybury, analysis	32	xiv
Opasatika river, analysis	152	A xiii
Norfolk and Northumberland cos.	88,	89 B xiii
Ontario co.	89-91	B xiii
Oxford co.	91, 92	B xiii
Beachville, analysis	148, 149	xii
Parry Sound dist.	92-95	B xiii
associated with anorthosite.	11	R C
McKellar, near, quarried	169	ix
Peel co.	95	B xiii
Perth co.	95-97	B xiii
St. Marys	59	i
analysis	151	xii
Peterboro' and Prescott cos	97-99	B xiii
Prince Edward co.	99, 100	B xiii
Rainy River dist.	100	B xiii
Rainy river, boulders burned for lime	76	iv
Steep-rock lake	71	v
78		vi
associated with iron	76	ii
307, 308		xii

	Page.	Vol.
Limestone.—Con.		
Renfrew co.	101-107	B xiii
McNab tp.	142	R C
Russell co.	107-109	B xiii
Rockland, analysis	21	x
Simcoe and Stormont cos.	109-111	B xiii
Thunder Bay dist.	111, 112	B xiii
Animikie range, analysis	163	A xv
Kwataboahagan river	192, 193	A xiii
L. Superior, north of, notes by Logan	130, 132	vi
Victoria and Waterloo cos.	112-116	B xiii
Welland co.	116-120	B xiii
Port Colborne (near), boring in	27, 28	A xv
notes and fossils	34, 35	xi
Wellington co.	120-123	B xiii
associated with iron	139	R C
Wentworth co.	123-126	B xiii
Ancaster, analysis	142	xii
York co.	126	B xiii
bituminous		
Abitibi river	128	iv
159		A xiii
crystalline		
See also Limestone for flux.		
Asia Minor, with corundum	241	viii
Bolton, Mass	472	R C
Burma, with corundum	62	vi
213		vii
231, 241		viii
Characteristic of Laurentian	250	v
For marble, eastern Ont.	234	vii
Greece, with corundum	241	viii
Hull tp., Que., with iron	53	ii
India, with corundum	231	viii
Minerals associated with	472	R C
list of	21	B xiii
Nepheline-syenite mistaken for.	210	vii
Notes on, by Miller	20, 21	B xiii
Burleigh tp.	212	viii
Burgess, N. tp., with corundum.	214	vii
wollastonite.	212	ix
Craigmont, near, photo	88	A xvi
Frontenac co.		
Barrie tp., cut by calcite	206	xi
with iron	134	R C
Bedford tp.	52	R C
Loughborough tp	149	R C
with apatite	53	R C
Olden tp., with silver	209	ix
Hastings co.		
associated with corundum.	216, 222	viii
iron	37, 38, 45-48	ii
54, 55		ii
pyrrhotite	197	xi
notes by Miller	213	vii
Larder lake, notes and photo.	207, 208	A xvi
with gold	221	A xvi
Leeds co.		
Seely Bay, holding graphite.	230	vii
Sharbot lake (near), tremolite in	211	ix
Niagara tp.	96	i
Nipissing lake	68	i
Iron island, with iron	63	ii
Parry Sound dist.	94	i
170		ix
notes by Coleman	166	ix

	Page.	Vol.		Page.	Vol.
Limestone, crystalline—Con.			Lincolnshire, ENGLAND.		
Snowdon tp., with hematite	131	R C	Iron in, royalties on.....	18	i
Talon, Nip.....	68	i	Lind, John	141 A	xiv
Thorold tp.....	108	i	Lindall, Edward	29	ix
Thorold.....	164 A	xiv	Linden lake, GENESSEE CO., MICH.		
for flux.			Copper mining on. <i>See</i> Calumet		
Canada, production, 1886-87	243	R C	and Hecla.		
1888.....	525	R C	Steel Mill, PITTSBURG.		
General.....	479	R C	Output of, 1893.....	119	ii
Humberstone.....	134	i	Wages paid by, statistics.....	370	R C
Kelly island.....	340	R C	Linderman, R. P.		
United States:—			Correspondence between, and		
Detroit, cost of.....	399	R C	Ritchie.....	107, 108	ii
Ohio and St. Louis, cost of....	392	R C	Lindsay, Hamilton	67, 71	xi
Petosky, Mich.....	98	xi	and McCutcheon.		
production, 1888.....	525	R C	Labour employed by, statistics..	370	R C
magnesian <i>See</i> Dolomite.			Joseph C. & Co.	119	ii
"Limestone city." <i>See</i> Kingston.			Lindsay, OPS TP., VICTORIA CO.		
Limestone creek, NELSON TP., HAL-			Artesian wells in.....	59	i
TON CO.			Bricks at, price, 1903.....	15 A	xiii
Limestone quarry at.....	104	i	Brick-yards at, notes and photos.		
islands, GEORGIAN BAY, L.				100-102 B	xv
HURON.			Limestone at.....	113 B	xiii
Analysis of limestone from.....	92 B	xiii	Linge river, HOLLAND.		
Limfjord, DENMARK.			Brick-kilns along, peat used in..	216	ii
Peat works near.....	211	ii	Lingham, F. R.	224	i
Limonite (BOG-IRON ORE.)			M.		
<i>See also</i> Iron.			Brick-yard of, Belleville.....	69 B	xv
Definition of.....	537	R C	clay for, analysis.....	17 B	xv
Determination of.....	204, 215	vi	<i>Lingula canadensis.</i>		
Hardness of.....	202	vi	Cobourg.....	40, 89 B	xiii
Magnetic permeability of.....	324	xii	Link lake, NEAR PIPESTONE LAKE,		
Occurrences of.....	201	ix	R. R. D.		
mode of.....	529	R C	Keewatin rocks on.....	61	iv
Prospecting for, hints on.....	454	R C	Linn, Robert	31, 33	iii
Quebec prov.....	26, 27	ii	<i>Linnæa borealis.</i>		
Three Rivers.....	400, 401	R C	Abitibi Lake dist.....	241 A	xiv
Specific gravity of.....	202	vi	Mattagami valley.....	150 A	xv
<hr/>			Linnæite.		
Bastard tp.....	35	ii	Hardness of.....	202	vi
Beveridge lake.....	142	R C	Joachimsthal, Bohemia.....	61 B	xiv
Dalhousie tp., photo.....	164 A	xvi	Specific gravity of.....	202	vi
Dinorwic, near.....	125	vii	Linnæus	89	iii
Drummond tp.....	137	R C	Linney, H.	80 A	xv
Gainsboro' tp., shewn at World's			Linning peat process.	193	i
Fair.....	81	ii	Linoleum.		
Goulburn tp.....	141	R C	Yellow-ochre for.....	170 A	xvi
Iron lake, Michipicoten div., an-			Lintley, Thomas	201, 206-210	iv
alysis.....	320 A	xiv	Linton, John	29	ix
Madoc tp.....	184 A	xvi	R.		
Mattagami river.....	138 A	xiii	Views of, on arsenic in glass-		
Paint lake, Michipicoten div....	324 A	xiv	making.....	118	xj
Ramsay tp.....	137	R C	Lintonite. <i>See</i> Thomsonite.		
Schreiber, near, deposited on			Liskeard Brick, Coal and Lumber		
timbers in shaft, photo and			Co.		
notes.....	183, 184 A	xvi	Exhibits of, at Buffalo.....	25 A	xv
<i>Limoptera macroptera.</i>			Yard of, at New Liskeard.....	83 B	xv
Stony pt., L. Huron.....	155	xii	L'Islet, L'ISLET CO., QUE.		
Linaloa state, MEXICO.			Bog-iron ore experiment on	53	ii
Cobalt minerals in.....	71 B	xiv	<i>Listera cordata.</i>		
Lincoln, J. C.	104	viii	Mattagami valley.....	150 A	xv
co.			Litchfield, MAINE.		
Brick yards in, notes.....	77-79 B	xv	Nepheline-syenite from.....	209	xi
Limestone in, notes by Miller...	73 B	xiii	Lithium mica. <i>See</i> Lepidolite.		
gold mine, MICHIPICOTEN DIV.,			Lithographic stone.		
ALG.	113	ix	Analyses and occurrences, paper		
			by Volney.....	181-184	ii
			Anderdon tp.....	126	xi
			Brant tp.....	36 B	xiii

	Page.	Vol.		Page.	Vol.
Lithographic stone.—Con.			Little Current.—Con.		
Burleigh Falls, near.....	213	viii	Rocks at and near.—Con.		
Collingwood, analysis	110	B xiii	Trenton	41	R C
Harvey tp., exhibited at Pan-				86	i
American Exhibition.....	88	xi		75	B xiii
Madoc	41, 53	R C	quarried	74, 84	R C
	204	xi			
Marmora tp.....	41, 53	R C	Dan arsenic mine, ARSENIC		
	213	viii	LAKE, TIMAGAMI REG., NIP.		
Crow lake, analyses.....	60, 61	B xiii	Mispickel from, analysis.....	23	B xiv
notes	137, 138	iii	Notes on, 1905.....	88	A xv
Marmora	194	xi	Work at, 1905.....	30	B xiv
	59	B xiii			
mining.	9	iii	Dog lake, KAMINISTIKWIA		
shewn at Pan-American Ex...	88	xi	RIVER, TH. B. D.		
Notes on, by Miller	6	B xiii	Forest fires on	205	v
Rattlesnake creek, Grand river..	55	B xiii			
Saugeen river.....	45	R C	Forks river, RAINY LAKE, R.		
Tay tp., analysis.....	110	B xiii	R. D.....	164	v
Walkerton (near).....	36	B xiii			
Litium canadense.			George gold mine, NEAR		
Abitibi Lake dist.....	242	A xiv	WAWA LAKE, ALG.		
Little, E. A.	67, 71	xi	Notes on, by Willmott.....	195	vii
John C.	59	xii			
Abitibi lake, LITTLE ABITIBI			Gros Cap, L. SUPERIOR.		
RIVER	188	viii	Description of lake shores from,		
Abitibi river, ABITIBI RIVER.			to Montreal river.....	130-132	viii
Forest fires on	177	A xiii	Iron ore at and near.....	183	ix
Notes on, by Parks.....	186, 187	viii	mining, early.....	11	Bull. iii
Pre-Cambrian rocks on.....	138, 140	A xiii	notes	254	viii
America gold mine, BLACK				154, 155	ix
BAY, RAINY LAKE, MINN.				202	vii
Chlorite schists of	85	iv	Hawk lake, GRASSY RIVER,		
First to operate on Rainy lake ..	41	iv	ALG.-NIP. LINE.		
Keewatin rocks of	59	iv	Ash rocks near.....	176	vi
Notes on, by Coleman	2, 6	Bull. i	Geological notes on.....	178	vi
	53, 54	iv	Glaciation on	181, 182	vi
	117	vi	Map of, sketch.....	175	vi
Shut down, 1895	62	v	Notes on vicinity, by Burwash..	176	vi
Bear lake, NEAR SKUNK LAKE,					
NIVEN'S BASE LINE, ALG.....	138	ix	Jumbo gold mine, VAN		
Bear river, L. SUPERIOR.			HORNE TP., R. R. D.....	125	vii
Minor ref. to.....	282, 285	A xiv	Kwataboahegan river, KWAT-		
Rocks near mouth of.....	348	A xiv	ABOAHEGAN RIVER, ALG.		
Beaver lake, MICHIPICOTEN			Swamp at, source of.....	146	A xiii
DIV., ALG.....	285, 291	A xiv	lake, N. of CHIPPEWA RIVER,		
"Little Bobs" Mining Co.			L. SUPERIOR.		
Capital and date of charter	9	x	Notes on country around....	201, 202	viii
Little Canada gold mine, RAINY			lakes, NEAR STRATFORD, PERTH		
LAKE, R. R. D.			CO.		
Granite in, altered	87	v	Erie clay from, analysis.....	14	B xv
Canada island, RAINY LAKE,			Long lake, LONG LAKE, NIP-		
R. R. D.			IGON LAKE REG., TH. B. D.		
Rocks on	59, 90	iv	Iron ore on.....	23	R C
Cedar creek, ABITIBI RIVER.			hematite.....	65	ii
Lignite near	188	viii	Manitou island. See McDon-		
	169	A xiii	ald island.		
Marine shells on (recent).....	191	viii	Master gold mine, KABAG-		
Notes on main river near.....	189	viii	UKSHI LAKE, MANITOU LAKE		
Surveys on, ref. to.....	138	A xiii	DIST., R. R. D.		
Cedar lake, BURLEIGH TP., PE-			See also Summit Lake G. Mg. Co.		
TERBORO' CO.			Fire at.....	43, 58	A xvi
Rocks on	213	viii	Notes on, 1903.....	68, 69	A xiii
Current, HOWLAND TP., ALG.			1904.....	53, 54	A xiv
Gas at	140	i	Operating, 1902.....	92	xii
Iron prospecting at.....	97	vii	Shut down.....	52	A xv
Rocks at and near.....	76, 77	B xiii	Vein in, photo.....	48, 49	A xiii
granite, for building	93	i			
Huronian.....	109	R C	Miami river, OHIO RIVER,		
			U.S.		
			Cincinnati group on.....	116	i
			Missinaibi lake, ALG.		
			Notes on, by Parks.....	140	ix

	Page.	Vol.
Little Missinaibi river, MISSINAIBI LAKE, ALG.		
Navigation of.....	140	ix
Waterpower near.....	142	x
Mountain lake, METHUEN TP., PETERBORO CO.		
Corundum on.....	211	viii
Position of.....	207	viii
Rocks of.....	208	viii
(OR PETITE) Nation river. See Nation river.		
Nipissing Silver Cobalt Mg. Co.		
Capital and date of charter.....	28	A xvi
Pic river, L. SUPERIOR.		
Animikie rocks near.....	238	iv
Copper on.....	63	R C
Iron ore on.....	36	R C
exhibited at World's Fair.....	79	ii
magnetic.....	65	ii
Silver on.....	202	R C
Pig silver mine, PORT ARTHUR DIST., TH. B. D.	199	R C
Pike lake, NEAR KAMANISTIKWIA, TH. B. D.		
Iron claims on.....	314	xii
Pine brook, BRUCE CO.		
Cherty beds near, fossiliferous..	35	B xiii
Pine lake, LITTLE PINE RIVER, KENOGAMI RIVER, TH. B. D.		
Iron ore on.....	314	xii
pt., L. ERIE.		
Cincinnati anticline near.....	42	R C
	116	i
rapid, MISSISSAGI RIVER, ALG.		
Agricultural land near.....	152	viii
Rapids apatite mine, PORTLAND TP., OTTAWA CO., QUE.		
Character of deposit.....	178	R C
Sugar apatite in.....	442	R C
river, ADIRONDACK MTS.		
Iron ore on, treatment of.....	349	R C
Rock Consolidated Mg. and Development Co.		
Capital and date of charter.....	5	xii
Work by, Seine river ..	71	A xiii
Salmon lake, CASHIEL TP., HASTINGS CO.		
Iron pyrites on.....	163	A xvi
Silver vein, NIPISSING MINES, COBALT, NIP.		
Greywacké slate near, analysis..	48	B xiv
Huronian rocks near.....	40	B xiv
Open-cut on, sketch plan.....	53	B xiv
Outcrop of, photo.....	Frontis.	B xiv
Specimen from, at Louisiana Exhibition.....	16	B xiv
Work on, notes.....	79	A xv
Stobie nickel mine, BLEZARD TP.		
Boring near, notes on.....	111	C xiv
Production, 1902.....	125	xii
Prospecting on.....	273	v
Rocks in and near.....	254	xii
	55, 81, 116	C xiv
gabbro.....	294	xii
Worked by Mond Nickel Co....	143	C xiv

	Page.	Vol.
Little Stoney portage, MICHIPICOTEN RIVER, ALG.		
Length of.....	188	vii
Photo of river at	140, 141	vii
Rocks on.....	203	vii
tp., NIP.		
Brick-clay in.....	207	A xiv
Glacial drift in.....	187	A xiv
Peat in	198	A xiv
Schists in, quartzose.....	198	A xiv
stained by limonite...	211	A xiv
Soil from, analysis.....	246	A xiv
Timber in.....	197, 198, 224	A xiv
Trout bay, L. SUPERIOR.		
Rocks in vicinity of.....	149	ix
Trout lake, N. OF L. SUPERIOR.		
	285	xiv
Turtle lake, N. OF BAD VERMILION LAKE, R.R.D.		
Fahlbands near	118	vi
Gold mining on, 1896.....	6	Bull. i
	82, 117	vi
	1897.....	71, 72
	1898.....	46, 79, 80
Gneisses near, character.....	80	iv
Iron ore westward from.....	134	x
Kewatin rocks near.....	49	iv
Sandstone on.....	183	ix
iron-bearing.....	184	ix
Surveyed, 1893.....	40	iv
Turtle river, RAINY LAKE DIST., R.R.D.		
Agricultural land near.....	67	v
Contact of Huronian and Laurentian on.....	129	vii
Gold mining in and near.....	57	iv
	64, 67	v
<i>See also Alice g. m.</i>		
Veins on, bedded, sketch of.....	51	iv
Vermilion lake, R.R.D. See Vermilion lakes.		
Wabigoon lake. See Dinorwic lake.		
Wabigoon narrows, DINORWIC LAKE, R.R.D.		
Rice and other water plants at..	67	iv
Wabigoon river, WABIGOON LAKE, R.R.D.		
Minor ref. to.....	123	vii
Notes on.....	126	vii
Whale river, HUDSON BAY, LAB.		
Coal near.....	126	iv
Live Post gold claim, NEAR MOORE BAY, L. OF THE WOODS, R.R.D.		
	21	iii
Liverpool, ENGLAND.		
Canadian apatite shipments to, 1884-5.....	443	B C
Livingstone, Alex.		
Gold mining by, near Abrams lake.	178, 180	vii
J. A.	125	vii
M. L.	103	i
Lizards.		
Lizard island, L. Superior.....	131	viii
McCann tp.....	253	A xiv
Lizard island, L. SUPERIOR.		
Notes on, by Coleman.....	131	viii

	Page.	Vol.		Page.	Vol.
Lizzie (OR VIRGINIA) gold mine, STURGEON LAKE, L. OF THE WOODS.			Locusts.		
Depth of, 1899.....	35	ix	Abitibi dist.....	129	A xiii
Idle, 1900.....	75	x	Lodestone.		
Notes on, 1898.....	59, 60	viii	Madoc tp.....	82	ii
1899.....	46, 47	ix		201	ix
Work at, 1903.....	64	A xiii	Lodi, ROXBOROUGH TP., STORMONT CO.		
iron mine. See Robertsville			Trenton formation in.....	48, 111	B xiii
iron mine.			Loess.		
Lloyd, E. B.	173	xii	Definition of.....	537	R C
S.	108	ix	Log Cabin Gold and Copper Co.		
H., Son & Co.	119	ii	Capital and date of charter.....	11	xi
	370	R C	Minor ref. to.....	242	xi
lake, NEAR WHITE-CLAY RIVER,			jams.		
ABITIBI RIVER.....	185	xii	Abitibi dist.....	208	A xiv
Lloyda gold mine, MICHIPICOTEN			Onaping river, photo.....	224, 225	A xiii
DIV., ALG.			Logan, J.		
Notes on, 1901.....	64	xii	Brick works of, Toronto.....	29	xii
Loadstone. See Lodestone.				109, 110	B XV
Lobb, James.	396, 486	R C	photo.....	48	B XV
Lobelia.			shale for, analysis.....	8	B XV
Abitibi dist.....	253	A xiv	J. W.	292	xi
" <i>kalmii</i>			Sir William E.		
Mattagami valley.....	150	A XV	Appointed Director, Geological		
" <i>spicata</i>			Survey of Canada, 1843.....	408	R C
Abitibi dist.....	241	A xiv		220	i
Lobstick portage, ABITIBI RIVER.			Average elevation of Archæan		
Notes on, by Parks.....	184	viii	areas given by.....	193	v
Rocks at and near.....	193	viii	Clays of Ontario classified by....	126	iii
augite-syenite.....	185	viii	Copper-bearing series of L. Sup-		
Waterpower at.....	193	viii	erior pointed out by.....	67	R C
Locations. See Mining claims.			Description by, of:—		
Loch Alsh, DOG LAKE, MICHIPICOTEN			gypsum, Grand river.....	110	i
DIV.			Keweenaw series in Michi-		
Minor ref. to.....	187	vii	picoten div.....	204	vii
Portage near, photo.....	140	vii	Devonian pebbles found by, near		
Striae near.....	197	vii	Pic island.....	157	viii
Earne, NEAR SHEBANDOWAN			Doré River conglomerate describ-		
LAKE, R. R. D.			ed by.....	183	ix
Huronian on.....	81	v	Economic importance of Huron-		
Minor ref. to.....	127	v	ian recognized by.....	249	v
Notes on, by Blue.....	126	v	Estimate by, of:—		
Lochiel, LOCHIEL TP., GLENGARRY CO.			iron ore in sight, Bruce mines,		
Chazy limestone at.....	46	B xiii	1848.....	177	ii
tp., GLENGARRY CO.			in Christie lake, thick-		
Limestone in.....	99	B xiii	ness.....	137	R C
Calciferous.....	46, 47	B xiii	Laurentian N. of Ottawa river,		
Lochrie, James			thickness.....	168	i
Brick-making by, Carlton West.	107	B XV	Extract from report by, on L.		
Lock(s).			Timiskaming.....	41	B xiv
Canadian imports of, 1881-87.	251, 468	R C	Geological nomenclature by....	4	R C
Locke, Daniel			Huronian.....	535	R C
Analysis by, of matte, Sudbury			Laurentian.....	100	vi
dist.....	152, 153	C xiv	Huronian areas mapped by..	122, 157	viii
Lockerby, D. L.	58	xii		182	ix
Lockhart, Alex.	56	iv	Knighting of, ref. to.....	219	i
Lockman, E. W.	131	vii	Laurentian system defined by...	194	v
Lockport, NIAGARA CO., N. Y.			Map by, of Bruce Mines region..	91	R C
Calcium carbide manufactured at.	37	v	Notes by, on:—		
	31	vi	Canadian iron ore exhibit, Lon-		
Lockwood, J.	104	vii	don, 1851.....	33	ii
W. M.	104	vii	geology of N. shore, L. Superior.		
Locomotives.				128, 129	vi
Imports of, to Canada, 1881-87..	248	R C	Huronian of Doré river.....	162	xi
Nickelfor.....	145	ii	peat in Ontario.....	190	i
Scrap mica for.....	34	vi	Oil cited by, Gaspé co., Que.....	93	A xiv
Steel tires for, cost of.....	387	R C	Social qualities of.....	219	i
			Surveys by, refs. to:—		
			Great Lakes, The.....	70	i
			Mamainse pen.....	78, 80	iii

	Page.	Vol.		Page.	Vol.
Logan, Sir William E.—<i>Con.</i>			Londonderry, COLCHESTER CO., N.S.		
Surveys by, refs. to.— <i>Con.</i>			Cobalt and nickel from.....	60	B xiv
Nipissing dist.....	81, 83	B xiii	Iron ore from, quality.....	401	R C
Timiskaming lake.....	32	B xiv	Iron Co.		
Port Arthur dist.....	32	R C	Bounties to.....	28	ii
	126, 136	vi	Output of.....	85	ii
Views of, regarding :—			Lone Jack gold mine, VAN HORNE		
a Museum of economic geology.....	522	R C	TP., R. R. D.....	125	vii
anticlinal theory in connexion			Lonely lake, KEE. AND ONT. <i>See</i>		
with gas and oil.....	115	i	Lac Seul.		
gypsum on Grand river.....	120	R C	lake, MICHIPICOTEN DIV., ALG.		
iron ore of Ottawa valley.....	32	ii		293, 344	A xiv
Laurentian system.....	244	v	Long, H.....	43, 44, 48	xii
Upper.....	10, 11	R C	H. E.		
marble from Barrie tp.....	80	R C	Copper mining by, N. of L. Hur-		
mineral resources of Upper			on.....	67	A xiv
Lake reg.....	255	R C		70	A xv
Silver Islet vein.....	34	R C	photo of veins.....	63, 66	A xiv
Work by, in Wales, ref. to.....	21	ix	Long, Major		
Gregg & Co.....	119	ii	Notes by, on customs mills in		
mt., SHICKSHOCK RANGE, QUE.			Colorado.....	34	iii
Nomenclature of.....	220	i	bay, L. OF THE WOODS, R. R. D.		
tp., PERTH CO.			Asbestos near.....	195	ix
Boring in for salt; brick-making			Dimensions of.....	181	v
in. <i>See</i> Mitchell and Monkton.			Geology of.....	103	vi
Loganite.			rocks.....	100	vi
N. Elmsley and N. Burgess tps..	201	ix	Notes on, by Coleman.....	93	vi
Lollingite.			Photo of Sunday camp on....	80, 81	vi
Carrying arsenic.....	101	xi	inlet, L. HURON.		
Galway tp., analysis.....	201	ix	Singular straightness of.....	67	i
Lombard and Hardin.....	54	iii	island, JAMES BAY, LAB.		
Lomer, Rohr and Co.			Anthracite (? anthraxolite) on..	126	iv
Apatite mining by, Loughboro tp.	240	i	Jasper on.....	93	v
Lonahan, Thomas.....	187	vii	Rocks on.....	86	i
London, LONDON CO., ENG.			lake, BARRIE TP. <i>See</i> Kashwak-		
Alabastine manufactured in.....	254	ii	amak lake.		
Apatite shipments to, 1884-85....	443	R C	lake, BLANCHE RIVER, NIP.		
Coal-gas of, quality and price....	150	iv	Falls at, utilized.....	14	A xv
Exhibition in <i>See</i> Exhibitions.			lake, COLEMAN TP. <i>See</i> Cobalt		
Stocks and bonds in, depression,			lake.		
1894.....	7	iv	lake, E. OF L. OF THE WOODS,		
London, MIDDLESEX CO., ONT.			R. R. D.		
Brick-kiln at, photo.....	51	B xv	Boring on, for gold.....	52	x
Clay at, notes and photo.....	28, 29	B xv	lake, E. OF MANITOU LAKE,		
Oil refineries at.....	157	R C	R. R. D.....	126	vii
Sulphuric acid manufactured at..	200	A xvi	(OR TEN-MILE) lake, E. OF ONA-		
Syncline west of.....	54	i	PING LAKE, ALG.		
Water supply of.....	60, 61	i	Country in vicinity of, notes....	154	x
boring for.....	152	R C	lake, MATTAGAMI RIVER. <i>See</i>		
	80	B xiii	Kenogamisee lake.		
springs.....	55	i	lake, MISSISSIPPI RIVER, ONT.		
and Canadian Mining and			Limestone north of, character...	45	B xiii
Development Co.			lake, N. OF ENGLISH RIVER,		
Capital and date of charter.....	11	xi	R. R. D.		
Brick Manufacturing and			Character of country S. of..	173, 174	vii
Supply Co.			Geology of vicinity.....	165	vii
Brick works of, notes and photo.			Rocks near.....	167	vii
	80, 81	B xv	Timber near.....	181	vii
Builders' Supply Co.			lake, N. OF L. SUPERIOR, TH. B. D.		
Brick-kiln of, photo.....	51	B xv	Country in vicinity of, descrip-		
-Elgin Oil Co.			tion.....	111, 112	iv
Capital and date of charter.....	9	xii	Iron near (with jasper).....	200	x
Gold Mining Co.....	86	R C	prospecting.....	265	xi
Oil Co.			Huronian rocks on.....	18	R C
Capital and date of charter.....	10	vii		124	iv
purple.			Moraine on.....	50	R C
Description and use of.....	113	xi	Road from, to Jackfish bay.....	9	vi
Mode of formation.....	120	xi		34	vii

	Page.	Vol.
Long lake, N.E. OF LOONSKIN LAKE, MICHIPICOTEN DIV., ALG.		
Cavern near.....	171	xi
Iron ore near.....	173	xi
lake, NEW KLONDIKE DIST., R. R. D. See Kawashegamuk lake.		
lake, OLDEN TP., FRONTENAC CO.		
Serpentine on.....	54 A	xiii
lake, PONTIAC CO., QUE. See Opasatika lake, Que.		
Lake Gold Mg. Co.		
Capital and date of charter.....	38 A	xiii
Gold mining by, New Klondike dist.....	256	xi
Lake House, LONG LAKE, N. OF L. SUPERIOR.		
Cereals grown at.....	112	iv
Lake P. O., OLDEN TP., FRONTENAC CO.		
Zinc mining near.....	25	xii
See also Richardson zinc mine.		
Lake river, THE NEW KLONDIKE, R. R. D.		
Gold mining near. See Tabor and Stevenson's mine.		
pt., LAC DES MILLE LACS, TH. B. D.		
Sand beach at.....	135	v
pt., L. ERIE.		
Erie clay west of.....	10 B	xv
pt., L. OF THE WOODS, R. R. D.		
Feldspar in greenstone near....	115	vii
Point island, L. OF THE WOODS, R. R. D.		
H. B. C. post on.....	185	v
Minor ref. to.....	181	v
lake, S. OF SHEBANDOWAN LAKE, TH. B. D. . . .	81, 127	v
portage, ABITIBI RIVER.		
Coal near, analysis.....	175 A	xiii
Rocks at and near.....	138, 142, 143 A	xiii
carbonaceous shales.....	159 A	xiii
coal measures.....	169 A	xiii
portage, MATTAGAMI RIVER.		
Corniferous formation near.....	47	R C
Ochres between, and Grand river.	128	iv
portage, MICHIPICOTEN RIVER, ALG.		
Description of river near.....	192	vii
Length of.....	5 Bull.	iii
	185	vii
portage, MISSINAIBI RIVER, ALG.		
Lignite near.....	125	iv
Minor ref. to.....	194	viii
portage, NIPIGON RIVER, TH. B. D.		
Moraine at.....	107 A	xvi
Portage falls, MISSINAIBI RIVER, ALG.		
	145 A	xiii
rapid, MAGPIE RIVER. See Kabetachewan rapid.		
rapid, RAINY RIVER, R. R. D..	167	v
Sault rapid, ABITIBI RIVER.		
Character of river near.....	186 A	xiv
Notes on, by Parks.....	182	viii
Photo of.....	184, 185	viii
Longchamps, Oliver.....	29	ix

	Page.	Vol.
Longford Mills, RAMA TP., ONTARIO CO.		
Charcoal plant at.....	3 B	xiii
Limestone at, analyses.....	90, 91 B	xiii
character.....	14 A	xiii
	24 B	xiii
Quarry Co.		
Capital and date of charter.....	11	xi
Officers of.....	91 B	xii
Stone producing, 1902.....	28	xij
Longnecker, G. A.		
Calabogie iron mine purchased by.....	191	iii
Iron mining by, near Madoc....	97	vii
	103	ix
Longueuil tp., PRESCOTT CO.		
Limestone quarries in.....	98, 99 B	xiii
Longwell claim, COBALT. See Denison claim.		
Longyear, E. J.	231	v
Lonicera caerulea.		
Abitibi Lake dist.....	241 A	xiv
Mattagami valley.....	150 A	xv
" <i>ciliata</i> .		
Mattagami valley.....	150 A	xv
" <i>hirsuta</i> .		
Mattagami valley.....	150 A	xv
" <i>involuta</i> . See Honeysuckle.		
" <i>oblongifolia</i> .		
Abitibi Lake dist.....	241 A	xiv
Mattagami valley.....	150 A	xv
Looking glasses. See Mirrors.		
Lookout mt., TENNESSEE.....	95 A	xiv
Loomis-Pettibone gas generator.	228	xi
Loon (GREAT NORTHERN DIVER).		
Abitibi river, south of.....	189	xii
	126 A	xiii
Little Abitibi lake.....	188	viii
lake, ANGLESEA TP., ADDINGTON CO.		
Rocks on.....	201, 202	xi
(? COON) lake, BURLEIGH TP., PETERBORO CO.		
Rocks on.....	213	viii
lake, CHANDOS TP., PETERBORO CO.		
Gold prospecting near.....	215	viii
lake, DEROCHE AND JARVIS TPS., ALG.		
Iron ore near, mining.....	58 A	xiii
See also Breitung Iron Co.		
Loon Lake iron mine.		
lake, MCTAVISH TP., TH. B. D.		
See also Animikie iron range.		
Iron ore on.....	144	R C
	65	ii
boring for.....	310	xii
	8 A	xiii
	12, 29, 44 A	xiv
	27 A	xv
results of concentrating experiments on.....	172 A	xv
Rocks on and near.....	168-170 A	xv
granite, notes.....	162 A	xv
notes by Committee on Pre-Cambrian nomenclature.	273 A	xiv
report by W. N. Smith.	254-260 A	xiv

	Page.	Vol.
Loon Lake (BREITUNG) iron mine, DEROCHE AND JARVIS TPS., ALG.		
Accident at.....	40 A	xiii
Work in, 1903.....	75, 76 A	xiii
1905.....	14, 71 A	xv
Lake Iron Co.		
Capital and date of charter.....	37 A	xiii
Lease of, expires.....	71 A	xv
Work by, 1903.....	75, 76 A	xiii
portage, MATTAGAMI RIVER, ALG.		
Description of river near	121 A	xv
Laurentian rocks at	131 A	xv
Tourmaline schist at.....	134 A	xv
station, McTAVISH TP., TH.B.D.		
Boring at, for iron.....	73 A	xiii
Rocks near.....	159, 168 A	xv
Loonskin lake, MICHIPICOTEN DIV.		
Character and length of.....	158	ix
Gold prospecting near.....	173	xi
Minor ref. to.....	154	xi
Rocks on and near	158	ix
161	xi	
iron bearing.....	204 A	xv
Striae on island in	178	ix
Loper, J. H.	142	x
Lord, A. D.	60	ix
L'Original, LONGUEUIL TP., PRESCOTT CO.		
Clay covered country west of ...	98 B	xiii
Limestone quarries near.....	98, 99 B	xiii
Lorimer lake, HAGERMAN TP., P.S.D.		
Limestone on.....	93 B	xiii
Loring, WILSON TP., P. S. D.		
Copper and iron near	262	viii
170, 171	ix	
Country south of, character.....	169	ix
Rocks near, gabbro, containing hypersthene.....	296	xii
petrography	182	ix
Lorne, Marquis of	220	i
iron claim, NEAR McDougall LAKE, ALG.		
Notes on, by J. M. Bell....	337, 338 A	xiv
Rocks near	316 A	xiv
tp., ALG.		
Nickel in	145 C	xiv
prospecting for.....	233	i
Lorrain Mining Co.		
Capital and date of charter.....	30 A	xvi
tp., NIP.		
Rocks in.....	6, 41, 46 B	xiv
photo	47 B	xiv
Silver prospecting in	7 A	xv
Lorraine (HUDSON RIVER) formation.		
Analysis of, from various local- ities.....	7 B	xv
As brick-clay, analysis and notes. 101, 104, 105	i	
126-128	iii	
Caledonia	252	iv
Compared with Ohio shales	119	iii
Composition and thickness of... 97 A	xiv	
Don, for brick-making	5, 7 B	xv
Fire-clay in.....	118	iii
Mimico, thickness	139	i
Notes on, by Bell	43	R C
Oil-fields, thickness of.....	96 A	xiv

	Page.	Vol.
Lorraine formation.—Con.		
Toronto	4	i
for brick making. 5, 110, 114 B	xv	
Losie, T.	104	vii
Lost lake, N. OF VERMILION LAKE, R. R. D.		
Gneiss on	169, 172	vii
Vegetables grown on	182	vii
lake, N. OF L. SUPERIOR, TH.B.D.		
Fertile land and forest near....	296 A	xiv
High hills north of.....	281 A	xiv
Iron ore near.....	316, 336 A	xiv
appearance favourable.....	339 A	xiv
Rocks near.....	349 A	xiv
Lost-end lake, ROBERTS TP.	224 A	xiii
Lot (OF TOWNSHIP.)		
Explanation of.....	218	vii
Lotbiniere co., QUE.		
Anthraxolite in.....	5 Bull.	i
Loucks, F. M.	104	vii
Louck's mill, CASTOR RIVER.		
Limestone at, analysis.....	108, 109 B	xiii
Loughborough lake, FRONTENAC CO.		
Limestone on, fossiliferous.....	44 B	xiii
Marl in.....	46 B	xiii
121 A	xiv	
Mining Co.		
Capital and date of charter.....	25 A	xv
Halan, Canton and Lacey mica mines worked by.....	86-88 A	xvi
Work by, 1906.....	22, 23 A	xvi
tp., FRONTENAC CO.		
Apatite in.....	149	R C
194	ix	
character.....	441	R C
mining	168	R C
evidence before R. C. 170, 171, 176-178	R C	
<i>See also Johnson m.</i>		
with amber.....	245	i
pyroxene.....	53	R C
Calcite in.....	195	ix
Datolite in	194	ii
197	ix	
Feldspar mining in.....	138	xii
Graphite in	199	ix
Iron ore from, shown at World's Fair.....	81	ii
Iron pyrites mining in.....	163 A	xvi
Lead in.....	198	ix
mining... ..	145, 146	R C
234	vii	
94 A	xiii	
<i>See also Frontenac lead m.</i>		
Limestone in.....	47	ii
analysis.....	45 B	xiii
fossiliferous	44 B	xiii
Mica in.....	170	R C
203	ix	
mining in.....	98	vii
133-135	x	
126	xii	
91, 92 A	xiii	
85 A	xiv	
103 A	xv	
evidence before R.C....	148, 149	R C
notes, 1892.....	249, 250	ii
1906 and photo....	89, 90 A	xvi

	Page.	Vol.		Page.	Vol.
Loughborough lake.—Con.			Lower Island portage, MATTAGAMI RIVER, ONT.		
Mica mining in.— <i>Con.</i>			Iron pyrites on.....	181	A xvi
<i>See also</i> Bear Lake m.			Marquette series. <i>See</i> Algonkian.		
McClatchey m.			Neepawa gold mine. <i>See</i> Royal Sovereign mine.		
Smith and Lacey m.			Nipigon formation. <i>See</i> Animikie.		
Sydenham.			Onaping lake. <i>See</i> Onaping lakes.		
Rocks in.....	288	xii	Slate Conglomerate formation.		
Veins in, banded structure of....	439	R C	Notes on, by Coleman.....	160	viii
Lougheed, A.			Palladian islands, photo....	136, 137	viii
Gold mining by, Seine River dist.	159	v	Lowndes, Henry	225	i
<i>Louicera ciliata.</i>			Lowry, H.	78	vii
Abitibi Lake dist.....	241	A xiv		74, 75	viii
<i>" sullivanii.</i>			<i>See also</i> next ref.		
Abitibi Lake dist.....	241	A xiv	gold mine, THE NEW KLON-DIKE, R.R.D.	42	viii
Louis (INDIAN)	195	vii	<i>Loxonema rob. sta.</i>		
Louisa pyrites mine, VA.			Kwataboahegan river.....	186	A xiii
Lenses in, thickness of.....	192	A xvi	photo of sections.....	192	A xiii
Lou'se Mining Co.			<i>" subattenuata.</i>		
Capital and date of charter.....	25	A xv	Kwataboahegan river.....	186	A xiii
Louisiana Exposition.			Loyada lake, LEEDS CO.		
Cobalt ores exhibited at.....	16	B xiv	Calciferous formation on.....	72	B xiii
Louisville, U.S.			Lucan, BIDDULPH TP., MIDDLESEX CO.		
Brick pavement in.....	108	iii	Morainic hills and clay land near.	153	xii
Lount, G. F.	124	viii	Lucas, John	108	ix
	112	B xiii		122	xi
tp., P. S. D.				32	xii
Iron mining in.....	50-53	xii	<i>Lucina elliptica.</i>		
<i>See also</i> Magnetawan iron mine.			St. Marys.....	151	xii
Limestone in.....	94	B xiii		96	B xiii
Louse, Scurfy Bark			Lucinda gold mine, FENWICK TP.		
Abitibi dist.....	129	A xiii	Notes on, 1904.....	59	A xiv
Louth tp., LINCOLN CO.			Gold Mg. Co.		
Boring in, for gas and oil, log... 112	A xv		Capital and date of charter.....	37	A xiii
<i>See also</i> St. Catharines.			Work by, Fenwick tp., 1904....	59	A xiv
Iroquois beach in. <i>See</i> Jordan.			Luckow, Albert	167, 172	iii
Lovejoy, Dr.	43	ix	Lucky Coon (HILLYER) gold mine,		
Lover's leap, MACKINAC ISLAND,			BAD VERMILION L., R.R.D.		
L. HURON, U.S.	109	v	Capital and officers of.....	70	ix
Lovett and Finney.			Depth of, 1894.....	230	iv
Process of, for concentrating iron			1899.....	35	ix
ores.....	106	ii	Granite in.....	116	vi
Low, Dr. A. P.				263	viii
Acknowledgments to.....	105	A xvi	Idle, 1896.....	81, 260	vi
Analysis of anthraxolite collected			1897.....	75	vii
by.....	162	vi	1898.....	277, 281	viii
Coal found by, in Lab.....	126	iv	Mill erected at.....	25	iv
Jaspery ores noted by, Lab. 202,	204	x	Notes on.....	5	Bull. i
Notes by, on mouths of Albany				57	iv
and Moose rivers.....	129, 130	iv		273	viii
Ref. to surveys by, Mistassini				70	ix
dist., Que. 159	A xv		by Blue.....	155-157	v
Severn river,			Coleman.....	65	v
Kee	93	v	Shut down, 1900.....	84	x
Views of, <i>re</i> Laurentian in Lab.	159	vii	Lucy blast furnaces, PITTSBURG.		
Low Phosphorous Ore Properties			Labour employed by, statistics..	369	R C
Co.			Ludlow, S. H.	152	A xiv
Capital and date of charter.....	10	vii	Lumbering.		
Lowdermilk, H. W.	173	C xiv	Batchawana bay.....	203	viii
Lowe, J.			Quinze lake, Que.....	227	xi
Brick-yard of, near Meaford.....	65	B xv	Seats of, in Ontario.....	119	iv
Lowell, MIDDLESEX CO., MASS.			Whiskey Lake region, Alg.....	63	A xiv
Waterpower at.....	485	R C	Lumby, F. A.	110	ix
Lower Helderberg formation.					
Composition of.....	98	A xiv			
Eastern Ontario, notes by Parks.					
	152-154	xii			
Hagersville (near).....	145, 146	xii			
Occurrences and thickness....	24, 25	B xiii			
Petrolea, thickness.....	96	A xiv			

	Page.	Vol.
Ludwigshafen, BAVARIA, GERMANY.		
Pyrites smelting at.....	195	A xvi
Lulea, LAN OF NORRBOTTEN, SWEDEN.		
Concentrating works at.....	341	xii
Wenstrom separator used at.....	328	xii
Lumsden Mining Co.		
Capital and date of charter.....	30	A xvi
tp., ALG.		
Rocks in, nickel-eruptive.....	201	A xiii
	71	C xiv
sandstone.....	100	C xiv
Lunan, W A.....	104, 187	vii
Lund lake, MICHIPICOTEN DIVISION,		
ALG.....	287, 293	A xiv
Lundergaard Mose, DENMARK.		
Peat works at.....	211	ii
Lunn, L. E.....	139, 142	x
	47	A xiii
<i>See also Continuity claim.</i>		
Lury, J. S. de		
Analysis by, of cobaltite from		
Cobalt.....	23	B xiv
Luther Manufacturing Co.....	481	R C
Lutterworth tp., HALIBURTON CO.		
Iron ore in, analysis.....	202	ix
boring for.....	52	x
exhibited at World's		
Fair.....	79	ii
<i>See also Paxton m.</i>		
Minerals in, notes on.....	57	B xiii
Rocks in, Grenville series.....	56	B xiii
Luttrell, —?.....	164, 165	v
Luxenburg.		
Steel production of, 1890.....	91	ii
1892.....	122	ii
Lybster tp., TH. B. D.		
Argentite in.....	194	ix
Silver mining in.....	201	R C
	23	viii
<i>See also East End mine.</i>		
Lycopodiaceæ.		
Abitibi dist.....	218	A xiv
Lycopodium annotinum.		
Abitibi Lake dist.....	242	A xiv
<i>complanatum.</i>		
Abitibi Lake dist.....	242	A xiv
Lycopus sinuatus.		
Mattagami valley.....	151	A xv
Lydian stone.		
Compared with Keweenawan		
eruptives.....	171	viii
Description of....	537	R C
Lyell, Sir Charles		
Term Eocene introduced by.....	533	R C
Hypogene proposed by.....	536	R C
Visit of, to Canada, 1842.....	225	A xiii
island, BRUCE CO.		
Limestone on, dolomite.....	37	B xiii
Niagara.....	50	B xiii
Lyla gold mine, MICHIPICOTEN DIV.,		
ALG.....	113	ix
Lyle and MaCance.....	119	ii
gold mine, DRYWEED ISLAND,		
RAINY LAKE, MINN.		
Idle, 1895.....	161	v
Notes on, by Coleman.....	63	v
Lyman, A.....	40, 41	A xiii

	Page.	Vol.
Lyn, ELIZABETHTOWN TP., LEEDS CO.		
Ancient width of strait at.....	243	A xiii
Clay at, stratified.....	241	A xii
Marine deposits near.....	220, 221	x
Lynch, D.....	48	A xii
F. B.....	74	A xiii
J. A.....	142	x
John.....	140	i
Lyndhurst (FURNACE FALLS), LANS-		
DOWNE TP., LEEDS CO.		
Iron furnace at.....	319	R C
	34	ii
Lyndoch tp., RENFREW CO.		
Amazonite in.....	193	ix
Beryl in.....	195	ix
crystals, photo.....	Facing 222	vii
notes by Miller.....	234-236	vii
Bismite in.....	195	ix
Bismuthinite in.....	234	vii
	195	ix
Boulders in, Silurian.....	213	vii
Columbite in.....	197	ix
with tin.....	211	ix
Corundum in, notes by Miller. 212, 223		vii
	221	viii
X-ray photos in.....	216, 217	viii
Nepheline syenite in.....	226, 229	vii
Samarskite in.....	208	ix
Lynx.		
Abitibi dist.....	127	A xiii
	242	A xiv
decrease of.....	186	viii
Hinterland, The.....	133	iv
Nipigon Lake reg., reported.....	139	A xvi
Niven's base line, Alg., and S. of 142		ix
Windigoostigwan lake.....	137	v
Lynxhead falls, SEINE RIVER, R.R.D.		
Gold prospecting at.....	76	vi
	132	vii
Lyon, R. A.....	200	vi
mt., U. S.		
Iron smelting at.....	477	R C
Lyons, FRANCE.		
Peat near, for burning.....	212	ii
Lyriopecten dardanus.		
Kwataboahegan river.....	188	A xiii
Lysimachia stricta.		
Mattagami valley.....	151	A xv
<i>thyrsiflora.</i>		
Mattagami valley.....	150	A xv

M 11 gold loc., HELLDIVER BAY,		
L. OF THE WOODS. See Olym-		
pia gold mine.		
12 gold loc. See Nonesuch gold		
mine.		
13 gold loc., ECHO BAY, SHOAL		
LAKE, L. OF THE WOODS... 48, 105		vi
<i>See also Daunais, Oliver</i>		
Maaki, Victor... 31		
Maas river, HOLLAND.		
Brick-kilns along, peat used in... 216		ii
Mabec, H. C..... 27		B xiii
Mabellake, MICHIPICOTEN DIV., ALG.		
Gold mining on. See Manxman		
Gold Mg. Co.		

	Page.	Vol.		Page.	Vol.
Maberly, S. SHERBROOKE TP., LAN- ARK CO.			McArthur=Forest process. See Cy- aniding.		
Mica prospecting near.....	103	A XV	mine, No. 1, COPPER CLIFF, NIP.		
Mac Mining Co.			Accident at.....	25	viii
Exhibits of, at Buffalo	25	A XV		25	ix
Macadam roads.			Discovery of.....	169	C xiv
Demerits of, in cities.....	104, 105	iii	Minor refs. to.....	285	xii
McA 28, 141 gold loc. See Victory gold mine.			Notes on, 1899.....	96	ix
46 gold loc. See Queen gold mine.			idle	122	x
51 gold loc. See Standard gold mine.			1901.....	277	xi
56, 129, 130, 134, 148, 189, 190 gold locs. See Triggs gold mine.			Photo of.....	272, 273	xii
288 gold loc. See Northern Lights Mines Co.			mine, No. 2, COPPER CLIFF, NIP.		
copper loc. See Black Bay Mg. Co.			Accident at.....	24	ix
McAllister, Capt. James.....	107	v		45	xii
W. B.			Minor ref.....	285	xii
Prospecting by, Sudbury dist.	169, 170	C xiv	Notes on, 1899.....	97	ix
McAlvay, A. V.....	256	xi	1900.....	122	x
	85	xii	1901	277, 278	xi
			1902.....	119	xii
Macaming (OR SORE) lake, SOUTH- WEST OF MATTAGAMI LAKE, ALG.	130	ix	Photo of.....	272, 273	xii
McAree, John A.			Macaulay, Andrew.....	150, 163, 164	viii
Creighton tp. surveyed by	135	C xiv	tp., MUSKOKA DIST.		
Engineer, Pritchard copper m....	86	ix	Brick works in. See Bracebridge.		
Sentinel g. m.....	64	viii	Macaulay, James.....	30	ix
Gold mining by, Aubrey tp.....	95	x	McBain, —?.....	81	vii
prospecting by, L. Nipissing.	237	ii	Macbeth, S. STE. MARIE DIST., ALG.		
History by, of the tin "salting"			Copper at	60	R C
in Michipicoten div.....	138, 139	viii	McBride, Robert		
Ref. to surveys by, Hastings dist.	39	iv	Foreman, Elsie mine	282	xi
R.R.D.....	36	iv	Mount Nickel m	254	xii
McArthur, Alexander.....	237	ii	Manager, Blezard m.....	247, 255, 256	ii
	40	iii		286	xii
Henry.....	55, 56	xii		56	C xiv
J. S.			Cameron m.....	273	v
Of McArthur=Forest process. See			Worthington m.....	246	iv
Cyaniding.				273	v
James			Red Rock mine, Bucke tp., own- ed by.....	87	A xv
Assistant to Dr. Peters.....	139	C xiv	Statement by, re Blezard m.....	142	C xiv
Estimate by, of Sudbury mining			Sheppard m....	60	C xiv
costs.....	180-182	C xiv	McCadden, H.....	289	xi
Evidence by, re accident....	212, 213	iv	McCall, Alfred		
Inventor of nickel-refining pro- cess.....	24	iv	Accident to.....	117	vii
Manager, Canadian Copper Co's			Work by, 1897.....	116, 126	vii
smelter	220	iv	McCall, James T. See Drummond, McCall & Co.		
	123	x	McCamus, Thomas		
	64	xi	Work by, 1904.....	266	A xiv
	117	xii	McCandless, A.....	66	xii
	140	C xiv	McCann tp., NIP.		
Copper Cliff mine.....	182	iii	Report on, by Workman....	248-253	A xiv
	243	iv	McCannell, J. S.		
	267	v	Brick-making by, Milton.....	68	B xv
	68	vi	McCarthy, —?.....	236, 237, 240	v
	285	xii	John	45	x
Paper by, on metallurgy at Cop- per Cliff.....	299-303	xii	Thomas	160	A xiv
Photo of.....	137	C xiv	McCaslin, J. J.....	104	viii
John			McCaul wharf, OTTAWA RIVER.		
Letter by, re accident to Bouchard.	169	iii	Cambro-Silurian near.....	108	B xiii
Peter	90	ix	McCharles, Aeneas		
T. A.			Evidence by, before R.C. re:—		
Recorder, Coleman Mg. div.	36	A xvi	gold and silver, Sault Ste. Marie		
Report by, on same.....	38	A xvi	dist.....	60	R C
			mining laws.....	308	R C
			tariffs	231	R C
			technical instruction.....	425	R C
			Owner, North Star mine.....	86	A xiii
				10	A xiv

	Page.	Vol.		Page.	Vol.
McCharles, Aeneas—Con.			McCormick, Eugene	42	B xiii
See also North Star mine.			Cobalt Silver Mg. Co.		
nickel mine. See North Star			Capital and date of charter.....	25	A xv
mine.			McCorquodale, —?		
McClarty, N.			Estimate by, <i>re</i> iron producing.		
Brick-yard of, Benmiller.....	70	B xv	Snowdon tp.....	336	R C
McClatchey and Hayden.			Notes by, on cost of charcoal iron.	395	R C
See also McClatchey mica mine.			McCort, Dr. Thomas J.	220	iv
Mica mine of, Loughboro tp.....	135	x	tp., Nip.		
.....	288	xi	Minor ref. to.....	195	A xiv
sold.....	127	xii	Soil in.....	227	A xiv
mica mine, LOUGHBORO TP.,			peat bog.....	198	A xiv
FRONTENAC CO.			requires drainage.....	207	A xiv
Notes on, 1901.....	288	xi	sandy area.....	197	A xiv
1902.....	127	xii	Trees in.....	227	A xiv
Producing, 1903.....	12	A xiii	McCosh, Donald J.	44	A xv
McCloud, Sandy			McCoy, G.	105	vii
Copper mining on land of. See			McCraney, D.	23	vi
Rock Lake copper mine.			McCright, Wilson		
McColl, Archibald	228	vii	Data by, <i>re</i> oil in Kent co.....	96-98	A xvi
McConkey tp., P.S.D.			McCrimmon, Dan	110	xii
Iron, copper pyrites and pyrrhot-			McCrindle lake, ROBERTS TP., ALG.		
ite in.....	170,	ix	Iron ore on.....	223, 224	A xiii
.....	262	viii	McCrone, Mrs.	149	xii
McConnell, Rinaldo			.....	116	B xiii
See also McConnell iron claim.			McCuan, J. D.		
Vermilion mine.			Manager, Big Jim and Dacre iron		
Boring by, for iron, Loon lake..	73	A xiii	mines.....	113	xii
.....	254	A xiv	Manager, Radnor iron mine....	259	xi
Gold prospecting by, Wanapitei			.....	47	xii
lake.....	4	iv	.....	37, 77	A xiv
Govt. drill lent to.....	50	xii	.....	95	A xv
Graphite mining by:—			McCue, W.	117	ix
Brougham tp.....	22, 86	A xiv	.....	142	x
McCue.....	26	xii	.....	74	xi
.....	23	A xv	McCue, (OLIVER FERRY,) N. ELMS-		
See also McCue.			LEY TP., LANARK CO.		
Iron prospecting by, Animikie			Graphite in.....	181	R C
range.....	156	A xv	.....	196	iii
Managing Director, Crystal m....	262	v	boring for.....	59	xi
.....	267, 268	vi	.....	26, 50, 53	xii
.....	139	vii	mine closed down.....	93	A xiii
President, Silver Bar Mg. Co....	86	A xv	.....	22	A xiv
Sudbury locations owned by.....	170	C xiv	.....	106	A xv
See also Vermilion m.			concentrator for.....	123	xii
McConnell creek, SELWYN LAKE,			minor ref.....	199	ix
NORMAN TP., NIP.			.....	27	xi
Nickel mining near. See Whistle			.....	12	A xiii
nickel mine.			notes.....	35	vi
graphite mine. See MacCue.			.....	134, 135	xii
iron claim, ANIMIKIE RANGE.			output, 1905.....	23	A xv
Th. B. D.			re-opened.....	87	A xiv
Photo of tunnel-mouth.....	43, 44	A xiv	Mica mining near.....	194, 195	iii
nickel mine. See Vermilion			McCullagh, John	31	vii
mine.			McCullough, Dalzell & Co.	119	ii
McConway, Torley & Co.	119	ii	McCullum—?	160	v
McCool lake, N. OF L. HURON, ALG.			Mansell	105	A xiv
Copper claims near.....	98	xii	McDermid, Walter		
veins on.....	67, 70	A xiv	As-ay by, of quartz from near		
photo.....	66	A xiv	Heron bay.....	29	R C
McCormack, John			McDermott, Walter		
Limestone quarrying by, Pelee			Description by, of Frue Vanners.	151	vi
island.....	42	B xiii	Notes by, on Huronian mine....	77	v
Roberts			MacDiarmid, tp. ALG.		
Evidence by, before Roy. Com.			Soil in.....	127	A xv
<i>re</i> :—			and timber.....	119, 120, 141	A xv
copper, Sudbury dist.....	105	R C			
gold, Snider tp.....	112	R C			
prospector's rights.....	310, 426	R C			

	Page.	Vol.		Page.	Vol.
McDonald, A. A.			McDonald tp., ALG.		
Evidence by, <i>re</i> marble, Hastings co.....	80	R C	Farming industry in. See Echo Bay.		
	61	B xiii	Iron ore in.....	143	R C
A. E.....	75	vi	Macdonell, Dr. Allan Scott	238	v
A. R.			A. McLean.....	23	xii
Evidence by, before Royal Com., <i>re</i> marble.....	82	R C	A. R.....	54	A xvi
ref. to.....	102, 103	B xiii	McDonell, Allan	87	A xiv
Allan			D.....	135	xii
Foreman, Crystal gold mine.....	262	v	Sir H. G.		
	267	vi	Consular report by, on peat in Denmark.....	211, 212	ii
University silver mine.	53	A xvi	Macdonnell, G. M.	178	iii.
Manager, McKinley and Darragh mine	79	A xv	mine, DENISON TP., ALG.		
Shaft contractor, Bath Island m.	40	vii	Minerals in, notes by Ricketts and Banks.....	179, 180	ii
Gray Eagle m.	59	vii	McDougal, George	238	ii
Angus, (1850).....	175	ii	McDougal, William	238	ii
Angus, (1903).....	80	A xiii	McDougal, George See McDougall, John & Co.		
C. J.....	104	viii	J.....	74	xi
D.....	101	R C	John.....	66	xii
D. F.			Views of, on peat for iron smelting.....	207	i
Acknowledgments to.....	94	B xiii	L.....	117	ix
Notes by, on forest fires, Algoma.	206	v		142	x
Timber estimator.....	165-167	xii		74	xi
Duncan.....	255, 257	ii		66	xii
Hon. Hugh John.....	99	x		48	A xiii
James.....	214	v	W. H.		
John			Acknowledgments.....	135, 139	viii
Oil refining by, Enniskillen tp..	164	R C		299	A xiv
President, National Oil Co....	26, 27	v	Iron and gold mining by, Michipicoten div.	104, 135, 139, 141	viii
Sir John A.				107, 160, 161	ix
In connexion with nickel-steel in Canada.....	171, 174, 175	C xiv		142	x
Macdonald, M.	105	vii		74	xi
	104	viii		66	xii
	142	x		48	A xiii
Mcdonald, M. T.	101	xii	John & Co.		
Macdonald, R. H.	79	A xiii	Bounty payments to	32	x
Tom			St. Francis furnace worked by ..	27	ii
Work by, 1896.....	96, 71, 104	vi	St. Maurice	24	ii
1897.....	110	vii	cape, IRON LAKE, MICHIPICOTEN DIV., ALG.		
Walter.....	79	x	Iron deposit on.....	313, 317, 318	A xiv
McDonald, William .. 167, 175, 176, 182		iii	Jaspilite on.....	320	A xiv
& Co.			Rocks on.....	354	A xiv
Brick-yard of, Canfield.....	66	B xv	chert, analysis.....	309, 310	A xiv
R. and Son.			cherty siderites.....	319	A xiv
Marble quarry of, Arnprior.....	102	B xiii	Chute station, TIMISKAMING AND NOR. ONT. R'Y., NIP...	220	A xvi
camp, NEAR KETILE LAKE, FALCONBRIDGE TP., ALG.			clearing, BLACK RIVER, ABITIBI RIVER.		
Photo of lake near.....	102	C xiv	Vegetables grown at.....	253	A xiv
Macdonald copper mine, FOLEY TP., P. S. D.			lake, N. OF HOMER TP., TH. B. D.		
Notes on, by Coleman.....	168	ix	Iron near.....	316	A xiv
McDonald corner, LANARK CO.			mining. See Lorne.		
Summer mining classes at, 1896 .	197	vi	Rocks on.....	305, 338	A xiv
creek, RABBIT LAKE, TIMAGAM DIST., NIP.			tp., PARRY SOUND DIST.		
Jaspilite near.....	167	x	Copper mining in	100, 168, 169	ix
Macdonald Institute, GUELPH	180	B xv		116	xii
(LITTLE MANITOU) island, L. NIPISSING.			Limestone in.....	93, 94	B xiii
Notes on, by Barlow.....	84	B xiii	Mica mining in.....	279, 280	v
mills, RIGAUD RIVER.			See also Valentine mica mine.		
Limestone at.....	99	B xiii	McDowell, F. H.		
nickel mine. See Lady Macdonald mine.			Ref. to work by, on treatment of magnetic ores	338, 340	xii
McDonald quarry, GUELPH.					
Limestone of, quality.....	122	B xiii			

	Page.	Vol.		Page.	Vol.
McEachern, Duncan			McGill, Hon. Peter		
Views of, <i>re</i> prospector's rights..	313	R C	Director, Marmora Foundry Co.	321, 322	R C
Pete	44, 50	x		15-21	ii
McEdwards, George	264	vi	Member of-Montreal Mg. Co....	127	vi
McElevay, P. H.	104	viii	University, MONTREAL.		
McEwan, A.	105	vii	Notes on	510	R C
Peter				216, 217	i
Evidence by, before R.C. <i>re</i> salt.			McGillivray, S.	198	v
54, 190, 237	R C		W.	105	vii
Salt wells of	185	R C		104	viii
McEwen, A. L.	60 A	xvi		117	ix
Arthur	228	i		142	x
	240	ii		74	xi
McFarlane, Alex.	86	x		66	xii
G. S.	233	i		48 A	xiii
Macfarlane, Thomas			William (1823)	162, 198	v
Chief analyst, Dept. of Interior.	4 A	xiv	McGinley, Arthur	31 A	xv
Explorations by, for Montreal			G. E.	67 A	xvi
Mg. Co.....	139, 140	vi	McGinnis, Smith & Co.	118	ii
Hematite reported by, Little Gros			McGlade, John	105 A	xv
Cap	11 B	iii	McGlashan's mills, SIMCOE CO.		
	145	viii	Limestone at.....	109 B	xiii
Notes by, on :—			McGowan, John	133 A	xiv
Batchawana iron deposits..	161, 163	ix	McGown, T.	214	v
iron ores, Hastings dist.....	39, 40	ii	and Sons. See McGown gold		
322-325, 331	R C		mine.		
Madoc blast furnace.....	22, 23	ii	lake, PARRY SOUND DIST.		
peat as a deodorizer.....	190	vi	Copper near.....	165	ix
Prospecting by, for the Montreal			mining. See McGown		
Co.....	34, 195	R C	mine.		
Report by, Michipicoten div., ref.			Gold mill on.....	100	ix
to.....	202, 204	vii	Quartz on, auriferous.....	88	vii
N of L. Superior....	168	viii	mine, FOLEY TP., P. S. D.		
Silver Islet mine discovered by..	4 A	xiv	Accident at.....	48, 57	xi
data by ...	142, 152	vi	Notes on, 1895.....	265	v
Surveys by, L. Superior, ref. to.	64	ii	1898.....	88	vii
124, 144, 145	ix		1899.....	100, 165	ix
189	x		1900.....	120, 121	x
Views of, on copper-bearing rocks			1901.....	267	xi
of L. Superior.	132, 133	vi	1902.....	116	xii
structure of L. Su-			by Coleman	98-100	iv
perior basin ..	75, 76	iii	259-260	viii	
Warning by, <i>re</i> picking eyes of			Rocks of	120	vi
mine	158	vi	petrography	180	ix
Work by, Capelton, Que, ref. to.	35	vi	Shut down, 1900.....	37	x
tavern, GUELPH TP., WELLING-			Gold Mg. Co.		
TON CO.			Capital and date of charter.....	11	vii
Limestone at	120 B	xiii	Diamond drilling by.....	51, 56, 88	x
McFarlen, Thomas James	256	ii	Property of, transferred to Parry		
Macfarlanite.			Sound Copper Mg. Co.....	259	viii
Port Arthur dist.....	55, 58 B	xiv	McGrath, M.	117	ix
Silver Islet mine.....	191, 194	ii	McGraw, Thomas	137	iii
McFaul, Patrick			McGregor, D.	105	vii
Lithographic stone on farm of...	137	iii		104	viii
McFee, Daniel			David	68, 273	vi
Gold mining by, Round lake....	118	v	George	104 A	xiii
John	223	i	James	68	vi
McGarry tp., Nip.				44, 50	x
Gold locations in, map showing.			Robert	82	ii
202, 203 A	xvi		bay, GEORGIAN BAY, L. HURON.		
McGee—?	28	iii	Copper south of.....	91	i
	171	vii	Quartzites near	72	i
W. J.			hotel, VILLE MARIE, QUE.		
Notes by, on origin of natural			Striae at, direction.....	178	ix
gas.....	143	i	lake, N. OF OTTAWA.		
McGibbon, D.			Marine shells on, altitude of....	216	x
Brick-yard of, Shedden.....	62 B	xv			

	Page.	Vol.		Page.	Vol.
Macgregor tp., TH. B. D.			McIrvine tp., R.R.D.	165, 166	v
Amphibolite area in	161	A xv	Mack 26, 27 gold locs.		
Granite in, for building-stone	61	R C	Bullion Mg. Co.		
Iron ore from, exhibited at			McKam process.		
World's Fair	79	ii	For de-sulphurizing oil	27	iv
Nickel in	59	B xiv	McKay, A. A.	105	vii
niccolite	205	ix		74	xi
McGuire, John	44, 50	x	A. G.	108	ix
Machar, J. M.			Annie	117	ix
Apatite mining by, Storrington			J.	48	A xiii
tp.	170	R C	John		
Notes by, on Frontenac lead mine	145	R C	Mica mining by, Calvin tp.	195	iii
See also next ref.			(Hemlock) lake, NEAR OT-		
iron mine, BEDFORD TP., FRON-			TAWA.		
TENAC CO.	136	R C	Marl in	122	A xiv
McHardy, J. A.	105	vii	analysis	39	B xiii
	117	ix	Limestone on, analysis	38	B xiii
Machegamiching lake, S.E. OF RICE			mt., NEAR FORT WILLIAM,		
LAKE, ALG.	131	ix	R.R.D.		
Machinery.			Description of	110	vi
Canadian imports of, 1881-87	251, 468	R C	Glaciation on	133	vii
McHugh, George	32	R C	Laccolithic sills of	256	A xiv
John	26, 27	viii	Photos of	96, 97	vi
Thomas	45, 48	xii	Section of	39	B xiv
McIlwraith iron pyrites mine, DAR-			Trap on	37	R C
LING TP., LANARK CO.				15	v
Abandoned, 1900	154	A xvi	McKechnie, Gilbert	33	xi
Notes on, and photo	153, 154	A xvi	McKecknie, Capt.		
Originally worked for gold	185	A xvi	Misprint for Maconochie, which		
McInkster, Ralph	55	vii	see.		
McInnes, William			McKee, Alexander	249	iv
Notes by, on Mesabi iron range			McKeehan, H. H.	117	ix
extension in Ont.	309	xii		142	x
Savant lake	88, 89	xii		75	xi
Ref. to map by, Seine River reg.	48	v	McKeesport, NEAR PITTSBURG, U.S.	370	R C
surveys by, R. R. d.	163, 164	v	McKellar, Archibald	26	R C
	151, 153	vii		58	iv
	129	xi	Donald		
Shebandowan			Gold mining by, Jackfish bay	26, 38	R C
Lake dist.	81	v		189	v
McIntosh, H. P.			J. A.	123, 125	i
Cost of nickel matte given by	179, 180	C xiv	John		
Evidence by, before R.C., re:—			Duncan silver mine discovered		
Canadian Copper Co.	103	R C	by	34	R C
free trade	239	R C	Gold prospecting by, Jackfish		
mining laws	317	R C	bay	112	v
smelting at Sudbury	381, 405, 406	R C	Peter		
want of railways	241	R C	Assistant to Bell	105	A xvi
Sec.-Treasurer, Stobie mine	272	v	Evidence by, before R.C.:—		
MacIntosh, W.	104	A xvi	free trade	232	R C
McIntosh Granite and Marble Co.			gold in Ont.	115	R C
Capital and date of charter	11	vii	iron in Ont.	144	R C
Macintosh, Hemphill & Co.	119	ii	ref. to	75	iv
McIntosh quarry, NEAR MADOC,			minerals, L. Superior	61	R C
HASTINGS CO.			mining laws	311	R C
Limestone from, analysis	61	B xiii	schools	426	R C
McIntyre, Duncan	266	vi	silver in Ont.	197	R C
	82	vii	Gold discovered by, Moss tp.	25	R C
Geo.	160	A xiv		123	v
John	167, 176	iii	mining by, Jackfish bay	112	v
John J.	25	iv		111	vi
	77	v	Seine River dist.	4	Bull. i
tp., THUNDER BAY DIST.				73, 74	vi
Animikie rocks in	31	R C	Iron ore exhibited by, at World's		
Galena in	198	ix	Fair	80	ii
Mispickel in	57	B xiv	found by, near Sturgeon		
Siderite and sphalerite in	209	ix	river, Nipigon lake	22	R C
Silver veins in, course of	33	R C			
Trap beds in	32	R C			

	Page.	Vol.		Page.	Vol.
McKellar, Peter—Con.			McKellar pt., L. SUPERIOR.		
Iron ore mined by, Atikokan			Direction of striae at.....	178, 179	ix
range.....	72, 73	ii	Geology of, and vicinity.....	148, 149, 179	ix
	35	x	Pectolite at.....	206	ix
Notes by, on:			Shore near, photo.....	148	ix
Atikokan iron range.....	70, 71	ii	Terrace at, altitude.....	175	ix
gold mining, Jackfish bay....	189	v	tp., P.S.D.		
Kokagaming			Limestone in.....	196	ix
lake.....	237	ii		94 B	xiii
L of the Woods			McKenty farm, MULLETS CORNERS,		
dist.....	266	v	NEAR MADOC.		
Moss tp. (Huron-			Notes on, by Fraleck.....	163 A	xvi
ian g.m.)....	79, 123	v	McKenzie, A.	105	vii
W. of Port Arthur.				66	xii
	230, 231	iv		48 A	xiii
silver, Nipigon bay.....	205	v	MacKenzie, Sir Alexander		
Norway gold mine partly owned			Description by, of mode of living		
by.....	31	iii	at Fort William, 1804.....	199	v
Paper by, on silver mining, Port			Notes by, on:—		
Arthur dist.....	237	iv	Kenora.....	169	v
Report by, on Empress g.m.....	265	vi	Rainy river.....	208	v
Silver discovered by, Port Arthur			site of Fort St. Pierre.....	197	v
dist.....	38, 194	R C	Pigeon river explored by.....	198	v
Statement by, re barytes, McKel-			Ref. to travels by, Port Arthur		
lar island.....	250	iv	dist.....	161	v
iron mining,			McKenzie, B. E.	160 A	xiv
Matawin river.	276	v	Dr. D. C.	31, 33	vii
Surveys by, Atikokan river, ref				24	viii
to.....	142	v	Ewen	87, 140	vii
Nipigon lake...213, 214		x	James		
Views of, re source of silver.			Captain, Mikado g.m.....	52	ix
Th.B.d.....	29, 35	R C		77	x
Vice-President, Empress G.M. Co.	263	vi		66	xi
Zenith zinc mine discovered by.	87	ix		59	xii
See also McKellar mine, Sabawe			Shakespeare g.m.....	70 A	xiii
lake, near Schreiber.				58 A	xiv
Bros.			Gold prospecting by, Anzhekum-		
Acknowledgments to.....	48, 84	v	ming lake.....	85	vi
Gold mining by, Jackfish bay.			Gold prospecting by, Minnitaki		
	84, 85, 104	v	lake.....	57	v
Iron mining by, Atikokan range,			Manager, Cobalt refining plant,		
notes.....	75	iv	Copper Cliff.....	65 A	xvi
McKellar, McKELLAR TP., P.S.D.			Mackenzie, Roderick		
Limestone quarry near.....	169	ix	Gold mining by, Galbraith tp... 40	iii	
claim, ELZEVIK TP., HASTINGS			William		
co.			Part owner, Wendigo gold mine.	71	x
Mispickel in.....	105	xi	McKenzie, William		
iron mine (E 10-12 loc.), SABAWÉ			See also MacKenzie & Mann.		
LAKE, ATKOKAN RIVER.			President, Atikokan Iron Co....	59 A	xv
Notes on, 1895.....	141	v	Shareholder, Willson Carbide Co.	22	x
1900.....	111, 112	x	MacKenzie & Mann.		
by Miller.....	306	xii	Boring by, with Govt. drill....	58, 60	xi
island, L. SUPERIOR.			Copper option held by, N. of L.		
Barytes on.....	177	i	Huron.....	98	xii
	193	ii	Iron mining by, Burwash lake..	17 A	xvi
	250	iv	W. of Port		
	276	v	Arthur.....	266	xi
	195	ix		13, 72 A	xiv
Rhodochromite from.....	187	ii		173 A	xvi
	208	ix	See also Mann, D. D.		
Silver-bearing rocks in.....	33	R C	McKenzie, MACGREGOR TP., TH.B.D.		
Zinc-blende in.....	209	ix		159, 161 A	xv
argentiferous.....	62	R C	apatite mine, BOWMAN TP.,		
	56 B	xiv	OTTAWA CO., QUE.		
Island Silver Mg. Co.			Rocks in.....	440	R C
Capital and date of charter.....	9	xii	MacKenzie creek, DINORWIC LAKE,		
mine, NEAR SCHREIBER, TH.B.D.			R.R.D.....	54	v
Notes on, 1900.....	88	x			

	Page.	Vol.		Page.	Vol.
McKenzie mills, BARTON CREEK, GRAND RIVER.			McKinley=Darragh=Savage mines.		
Gypsum at	53 B	xiii	— <i>Con.</i>		
Mackenzie river, MACK.			Producing, 1905.....	7 A	xv
Discovery of.....	198	v	1906.....	8 A	xvi
river, L. SUPERIOR.			Veins in, strike of.....	36 B	xiv
Silver mining near	195	R C	tariff bill.		
station, E. OF PORT ARTHUR,			Affecting iron.....	67	ii
Th.B.D.			lime	132	i
Gold mining near.....	89	x	nickel	28	vii
tp., P.S.D.			McKinnon, Alexander	25	viii
Copper ores in	169, 170	ix	C. A.	142	x
Limestone in.....	93, 94 B	xiii		66	xii
McKerrow, W. D.	45	xii	D.	89 A	xv
Mackey, J. J.			D. L.		
Gold mining by, Michipicoten			Action against	49	xi
div.....	11 Bull.	iii	Contractor, Copper Cliff m...267, 269		v
	194	vii		95	vii
	146	viii		25, 34	viii
	114, 117	ix		24, 25	ix
	142	x		51, 280	xi
John	207	iv		45	xii
R. E.	117	ix	bridge, MAGPIE RIVER, L. Su-		
pt., WAWA LAKE, ALG.	114	ix	PERIOR.		
Mackie, Thomas	268	vi	Canoe navigation near.....	286 A	xiv
W.	75 A	xiv	Forest fires near.....	296 A	xiv
	99 A	xv	Rocks on and near.....307, 344, 345 A	xiv	
	84 A	xvi	diabase	294 A	xiv
McKillican, D. V.	50	ix	Trees near.....	296 A	xiv
McKim tp., SUDBURY DIST., NIP.			quarry. See Victoria quarry.		
See also Copper Cliff mine.			McKinstry, R.	64 A	xiii
Elsie mine.			McLaren, A.	105	vii
Murray mine.				104	viii
Copper in:	24	R C	A. F.		
chalcopyrite	196	iv	Part owner, Big Ruby mine	124	vii
Millerite in.....	59 B	xiv	President, Summit Lake Mg. Co.	91	xii
Pyrrhotite in	78 C	xiv	Vice-President, National Port-		
Rocks in, garnetiferous	292	xii	land Cement Co.	149 A	xiv
granite	241	xii	Donald	92	i
	55, 83 C	xiv	G. B.		
greenstone	50 C	xiv	Provincial silver mine discovered		
off-set deposits	57 C	xiv	by	10 A	xvi
greywacké.....	76 C	xiv	J.	105	vii
schists, crystalline....	80	i	James		
Smaltite in	194	ii	Part owner, Huronian mine	123	v
	214	vi	James		
	209	ix	Sudbury locations owned by....	170 C	xiv
	59 B	xiv	Hon. Peter		
Survey lines of, destroyed by fire.	237	xii	Apatite mining by, Bobs lake... 239		i
McKimm, U. H.	105	vii	Director, Cataraqui Mg. Devel.		
Mackinac island, MICHIGAN, U.S.			Co.....	275	v
Notes on, by Blue.....	108, 109	v		128	x
McKindsey, George C.	31	v	Mica mining by. See McLaren		
McKinley, James H.			mica m.		
Cobalt silver field discovered by.	7 A	xvi	Shareholder in Calabogie Co....	136	R C
John	98	ix	Sophia gold mine owned by....	117	x
Robert	255	ii		102	xi
=Darragh=Savage mines, Co-			W. L.	287	xi
BALT.				23 A	xvi
Capital and date of charter	30 A	xvi	William		
	13 A	xvi	Quarrying by, Credit Forks.....	99	i
Diabase in	37 B	xiv	apatite mine, TEMPLETON TP.,		
Dividend from.....	13 A	xvi	OTTAWA CO., QUE.		
Mining class at.....	52 A	xvi	Sugar apatite in.....	442	R C
Minor ref. to	15 B	xiv	creek, BAY LAKE, NIP.	139	vii
Notes on	79 A	xv	mica mine, N. BURGESS TP.,		
by Miller	100 A	xiii	LANARK CO.		
Owners.....	5 A	xiv	Notes on, 1901	287	xi
			1902	128	xii
			McLashan, L.	136	i

	Page.	Vol.		Page.	Vol.
McLaughlin, Charles	47-50	x	McManus, A. E.	76	viii
F.	286	xi		74	ix
Hugh R. <i>See</i> Farquharson, McLaughlin and Hartney.			McMartin, D. George		
James	141	A xiv	<i>See also</i> McMartin mica mine.		
Thomas	32	xii	Apatite mining by, N. Burgess tp. 174		R C
	157	A xiv	evidence before R. C. 150, 175		R C
mill, ARNPRIOR.			Gen. Manager, Baby mica mine. 278		v
Analysis of limestone from.....	106	B xiii	Pike Lake mica		
McLean, A.	117	ix	mine.....	277	v
	142	x	Owner, Martha mica mine.....	194	iii
	75	xi	J.	5	A xiv
Alexander				73	A xv
Evidence by, before R.C. <i>re</i> :—			mica mine, N. BURGESS TP.,		
free-trade.....	235	R C	LANARK CO.		
marble.....	83	R C	Notes on, 1895.....	279	v
	64	B xiii	McMaster Hall, TORONTO.		
Marble quarry of, Renfrew.....	102	B xiii	Building stone of.....	79	R C
Charles John			lake, DOG RIVER, L. SUPERIOR.		
Gold mining by, Seine River dist. 159		v	Fall from, to L. Superior.....	286	A xiv
	73, 75	vi	Morainic drift near.....	288	A xiv
	81	xii	Notes on, and vicinity.....	140	viii
	48	A xv	Terrace near.....	176	ix
John R.			McMichael, A. F.	117	ix
Gold mining by, L. of the Woods. 182		v	M.	32	ix
Michipicoten			McMicken, H. G.	16	iii
div.....	75	xi	gold mine, L. OF THE WOODS.	64	R C
	66	xii	McMillan, D. J.	217	x
William	158, 166	xii	E.	75	xi
lake, NEAR ROSSPORT, L. Su-			J.		
PERIOR.			Copper mine of, Foley tp., notes		
Nickel mining near.....	109	x	by Coleman.....	168	ix
co., PENN.			Hon. J.	128, 129	x
Natural gas in.....	152	R C	James G.		
McLennan tp., NIP.			Acknowledgments to.....	45	A xv
Gold mining in. <i>See</i> Bonanza g.m.			Manager, Foster mine, Cobalt... 85		A xv
Mammoth g.			Report by, on Explorations in		
m.			Abitibi dist.... 184-212		A xiv
Nickel in.....	284	xi	ref. to.....	117	A xv
	273, 276	xii	Work by, 1903.....	x, 52, 53	A xiii
<i>See also</i> Blue Lake mine.			John	118	v
Rocks in, diabase.....	73	C xiv	N.		
nickel eruptive.....	62	C xiv	Killed at Shakespeare g. m.... 26-29		A xiv
Swamps in.....	7	C xiv	Manager, Mikado g. m.....	52	ix
Terraces in.....	106	C xiv		77, 93	x
McLeod, —?				65	xi
Silver mining by, Coleman tp.. 7, 80		A xv		60	A xiii
A. J. (H.B.C.)	132, 133, 142	ix	Regina g. m.....	254	xi
Angus	181	vi		59	xii
Bernard (H.B.C.)			Notes by, on Mikado g. m.....	81	xi
Photo of.....	184, 185	viii	Mrs. N. C.	59	xii
Trading in Night-Hawk Lake reg. 175		viii	Truman	48, 50	x
C. H.	217	i	W. W.	271	xi
D.	117	ix	copper mine, ABERDEEN TP.,		
George	53, 57	xi	ALG.....	22, 53, 57	xi
Hugh	30	vii	McMullen, James	29	ix
John	273	viii	McMurchy, Dr. A.	210, 211	iv
	74	ix		68	vi
Malcolm	40	iii		26	viii
Murdock	53, 57	xi		25	ix
Norman	206	v		49	xi
W.	86	ix	McNab, J. W.	133	A xiv
pt., ABITIBI RIVER	107	A xiii	Iron Co.		
McLurg, Dr. J. D.	29	A xv	Capital and date of charter.....	11	vii
	32	A xvi	iron mine, NEAR ARNPRIOR,		
McLymont, Victor	515-518	R C	RENFREW CO.		
McMahon, James	25	ix	Hematite in.....	55	ii
tp., ALG.			analysis.....	55, 56	ii
Copper mining in.....	273	xi	Notes on, by owner.....	141, 142	R C
	100	xii			

	Page.	Vol.		Page.	Vol.
McNab lake, KEPPEL TP., GREY CO.			McOuat, William		
Marl on.....	31	xii	Ref. to surveys by, Abitibi dist..	81	i
	17	B xiii		82	B xiii
	159	A xiv	Quinze river.	54	ii
tp., RENFREW CO.				202	x
Barytes in.....	195	ix		96	iv
Brick-yard in. <i>See</i> Arnprior.			Macoun, Prof. John		
Iron in.....	32	ii			
exhibited in London....	34	ii	Macozenda river. <i>See</i> Trout river,		
mining. <i>See</i> McNab mine.			Kapuskasing lake.		
specular, estimate of.....	35	ii	McParland, John		
Limestone in.....	102	B xiii	McNally mica mine owned by... 132	x	
analysis.....	105	B xiii	Pike Lake mica mine leased to.. 128	xii	
quarrying. <i>See</i> Brae-			Macphail, A.	36	A xvi
side.			McPhail, Prof. A.		
McNair, —?	144	ix	Tests by, on crushing strength of		
McNally, Bernard	52	xi	clay.....	37	B xv
H. W.	52, 57	xi	Alexander	59	A xvi
mica mine, NEAR WESTPORT,			J.	142	x
LEEDS CO.			McPhee, Alexander	123	xii
Accident at.....	52, 57	xi	Frank	86	ix
Notes on.....	133	x	McPherson, A.	91	B xiii
McNaughton, D.	167, 176	iii	falls, VERMILION RIVER, NIP.		
G. W.			Water-power at..... 13, 62	A xv	
Manager, for General Electric Co.	291	xi	photo of plant.....	68	A xiv
	91	A xiii	McPhillips, F.	41	viii
	39, 41, 103	A xv	McQuade copper claim, NEAR SANS		
Hanlan mica mine....	129	xii	SOUCI, P. S. D.....	101	ix
Lacey mica mine....	287	xi	McQuaig, John	86	x
	84	A xiv	McQuarrie, John		
	86	A xvi	Evidence by, re minerals in Rainy		
John			Lake dist.....	64	R C
Gold mining by, Round lake....	118	v	ref. to.....	123	iv
	126, 143	vi	Macquenne. <i>See</i> Maquenne, Leon		
McNeil, Malcolm	279, 280	v	McQuire, H. F.		
Waterford D.	156	xii	Recorder, Parry Sound Mg. div. 36	A xvi	
McNeill, E. W.	142	x	Report by, on same..... 44, 45	A xvi	
	75	xi	McRae, Hector		
H. C.	341	xii	Director, Black Donald Graphite		
MacNichol, C.	107	vi	Co.....	24	x
Macnider tp., RIMOUSKI CO., QUE.			Sec.-Treasurer, Ontario Graphite		
Peat at.....	198	ii	Co.....	31	v
McNolty, J. P.	271	xi	J. C.	38	vi
	80	xii	Acknowledgments to.....	119	B xiii
Percy	67	vi	Boring record furnished by, Port		
McNulty, Percy	246	ii	Colborne.....	129	i
T. P.	79	A xiii	Views of, re Corniferous, near Port		
Macoma.			Colborne.....	35	xi
Maitland (near).....	242	A xiii	J. W.		
Payne river.....	219	x	Director, Black Donald Graphite		
Williamsburg (near).....	220	x	Co.....	24	x
<i>" calcarea.</i>			Manager, Black Donald graphite		
Abitibi river.....	189	viii	mine.....	292	xi
James bay.....	143	A xiii		134	xii
Missinaibi river.....	162	A xiii	P. J.	104	viii
Saxicava sand.....	32	B xv		117	ix
Stormont co.....	224	x		142	x
<i>" fragilis.</i>				75	xi
Abitibi river.....	189	viii		66	xii
Crysler (near).....	218	x		48	A xiii
Finch.....	217	x	and McDonald.		
Gladstone, near Prescott.....	220	x	Silver mining by, Cobalt.....	78	A xv
James bay.....	143	A xiii	McRoberts	20	vi
Ottawa.....	216, 224	x	<i>Macro-tomus.</i>		
Saxicava sand.....	32	B xv	Emerald lake.....	87	B xiii
Smiths Falls (near).....	217	x	McTavish, Alexander	29	A xv
Maconochie, A. W.	22	xi	J. W.	105	vii
Maconochie, (NOT McKECHNIE,)				104	viii
Capt. R. B.	143	ii			

	Page.	Vol.
McTavish tp., TH. B. D.		
Galena in.....	198	ix
notes by Bell.....	87	A xiii
Iron in, boring for.....	38	R C
See also Animikie iron range.	29-31	A xiv
Loon lake.		
Rocks in. See Bass lake.		
McTighe, T. J.		
Magnetic separation of pyrrhotite by.....	164	ii
McTomney, P.	142	x
McVeigh, Peter	105, 197	vii
creek, HAWK LAKE, MICHIPICOTEN DIV., ALG.		
Character of.....	160	ix
Huronian rocks on.....	196	vii
Lacustrine deposits near.....	192	A xv
Minor ref. to.....	184	A xv
iron mine, BATHURST TP., LANARK CO.		
Iron ore of, titaniferous.....	51	ii
Limestone in, with apatite.....	46	ii
McVicar, George		
Silver mining by, Port Arthur dist.....	34, 117, 194	R C
McVittie, M.		
Brick yard of, Whitefish, Alg... William	57	B x'v
Blue Lake nickel mine owned by.	285	xi
Blueite found by, Gertrude mine.	160	C xiv
Coal prospecting by, Onaping dist.	82	xi
	96	C xiv
Prospecting by, Sudbury dist....	94	vii
	32, 33, 135	C xiv
tp., NIP.		
Gold locations in, map showing	202, 203	A xvi
McWhinney & Co.	119	ii
Madawaska river, OTTAWA RIVER.		
Chazy formation on.....	41	R C
Corundum on and near.....	64, 65	vi
	221	vii
	222, 223	viii
Crystalline limestone near.....	101	B xiii
Diopside on.....	197	ix
Pargasite on.....	206	ix
Surveys on, by Murray.....	244	viii
Waterpower on.....	66	vi
	219, 252	vii
	237	viii
for Black Donald m.....	27	xi
	26	xii
	87	A xiv
	14	A xv
from Mountain chute.....	27, 133	xi
	222	xii
photo.....	Facing	vii
suggested use of.....	390, 391	R C
See also High falls.		
Ragged chute.		
Maddin, S. D.	31	A xvi
Madge, P.	117	ix
	142	x
	74	xi
W. C.	99	xii
Madgeburg, HOLLAND.		
Glass works at.....	75	B xiv

	Page.	Vol.
Madill corundum mine, METHUEN TP., PETERBORO CO.		
Corundum in, in syenite, photo.	216, 217	viii
Madison, William A.	69	xv
Madoc, MADOC TP., HASTINGS CO.		
Brickyard at.....	69	B xv
analysis of clay used in.....	18	B xv
Cobalt bloom near.....	11	A xv
Fluorspar mining near.....	106	A xv
Furnaces at, notes on.....	22	ii
Glaciation near.....	237	A xiii
beaches.....	232	A xiii
Iron mining near.....	97	vii
See also Huntingdon tp.		
Iron pyrites mining near.....	20	A xv
See also Bannockburn.		
Lead smelter at, proposed.....	288	viii
Limestone in, analysis.....	62	B xiii
quarried.....	61	B xiii
marble, notes.....	65	B xiii
quarried.....	204	xi
Mining class at, 1897.....	260	vii
Mispickel near.....	199	xi
Rocks at, petrographical notes...	207	xi
slate (quarried).....	204	xi
Talc near.....	210	ix
mining.....	24	x
	205	xi
	92	A xiii
production, 1906.....	26	A xvi
Whetstone quarried near.....	204	xi
Madoc tp., HASTINGS CO.		
Chalcodite in.....	196	ix
Cobalt ores in:—		
erythrite.....	60	B xiv
	214	vi
	198	ix
smaltite.....	214	vi
	209	ix
Copper ores in:—		
chalcopyrite.....	196	ix
	161	A xvi
malachite.....	202	ix
tetrahedrite.....	38	iv
	210	ix
Franklinite in.....	198	ix
Gold in.....	199	ix
discovery.....	27, 28	R C
	35, 38	iv
mining, early.....	54	iii
evidence before R. C.		
	65, 66, 110, 111, 115	R C
notes by Merritt.....	106	R C
speculation in.....	185	ii
See also Bannockburn g. m.		
Sophia g. m.		
Greenstone in.....	15	v
Iron ores in.....	133	R C
	31, 36-40	ii
exhibited in Chicago.....	80, 82	ii
London.....	33	ii
hematite.....	288	viii
	199	ix
loadstone.....	82	ii
	201	ix
magnetite, analysis.....	202	ix

	Page.	Vol.		Page.	Vol.
Madoc tp.—Con.			Magnesium.		
Iron ores in.— <i>Con.</i> •			As a purifying agent for nickel... 183	iv	
mining..... 31, 32	viii		Effect of, on nickel..... 382	RC	
<i>See also</i> Brennan m.			Proportion of, in earth's crust... 447	RC	
Coe m.			Magnet cove, ARKANSAS.		
Seymour m.			Leucite-tinguaite from, analysis.		
Wallbridge m.			189, 190	ix	
notes by Vennor..... 41, 42	ii		Magnetawan iron mine, LOUNT TP.,		
pyrites..... 207	ix		P.S.D.		
mining..... 95 A	xiii		Notes on, 1901..... 262, 263	xi	
79 A	xiv		Mining Co.		
150 A	xvi		Option held by, on Nickel Cliff		
notes by Fraleck..... 160, 161 A	xvi		mine..... 286	xi	
<i>See also</i> American Madoc Mg.			Magnetic concentration of iron ores.		
Co.			Paper on, by Wells..... 322-342	xii	
Bannockburn.			iron sand:		
Jarman m.			Peninsula (near), notes on..... 83	vii	
Queensboro.			lake, ATIKOKAN RIVER, R.R.D.		
pyrrhotite..... 207	ix		Character of..... 141	v	
200 A	xvi		Falls near, description..... 141	v	
smelting..... 37	ii		photo..... 80, 81	v	
Jamesonite in..... 161 A	xvi		Iron ore near..... 68	ii	
Kaolinite in..... 200	ix		River near, character..... 73	v	
Limestone in:—			Rock barrier in river near..... 142	v	
analysis..... 61, 62 B	xiii		Rocks on..... 131	xi	
marble, calcite..... 195	ix		needle.		
evidence before R. C. 81	RC		Use of, in iron prospecting..... 465	RC	
63 B	xiii		pt., E. KABENUNG LAKE, MICH-		
notes by Chapman... 81	RC		IPICOTEN DIV.		
Merritt 75	RC		Iron formation at, notes.... 326, 327 A	xiv	
Lithographic stone in:—			Rocks on..... 314 A	xiv	
evidence before R. C.... 80, 81, 235	RC		pyrites. See PYRRHOTITE.		
notes by Merritt..... 41, 53	RC		separator.		
Meteorite at, notes on..... 203	ix		Early use of, notes by Bell..... 491	RC	
Minerals in, list of..... 194	ii		variation.		
notes by Miller..... 199	xi		Michipicoten..... 186	vii	
Quartz crystals in..... 208	ix		Rainy River dist., 4th Base line. 177	vii	
Rutile in..... 208	ix		Magnetite.		
Shale in, for roofing..... 79, 87	RC		<i>See also</i> Iron.		
Stilpnomelane in..... 210	ix		Analysis of various..... 201, 202	ix	
chalcodeite..... 196	ix		Association of, with corundum...		
Tourmaline in..... 211	ix		240-243	vii	
indicolite..... 200	ix		Bog-iron ore converted into.... 53	ii	
Turgite in..... 211	ix		Burma, associated with corun-		
Uraconite in..... 194	ii		dum..... 233	viii	
232, 233	vii		Definition of..... 537	RC	
211	ix		Determination of..... 204, 214	vi	
Wad in..... 211	ix		Hardness of..... 202	vi	
Madras, EAST INDIA.			In syenite, photo..... 222	vii	
Mica from..... 135	x		Iron in, percentage of..... 341	RC	
competing with Canadian.... 28	xi		Magnetic permeability of..... 324	xii	
presidency, EAST INDIA.			Occurrences of..... 201, 202	ix	
Corundum deposits of..... 231, 242	viii		Opasatika (Long) lake. Que.... 228	xi	
Madrid prov., SPAIN.			Samples of, amenable to coarse		
Mispickel in..... 101	xi		concentration..... 336, 337	xii	
Maganatawan river, BYNG INLET,			Specific gravity of..... 202	vi	
P.S.D.					
Breccia dikes in..... 79	i				
Waterpower on..... 252	vii		Atikokan river..... 20, 22	RC	
Magee claim, STURGEON LAKE, TH.			Bedford tp..... 52	RC	
B.D..... 149	xi		Cartier station, Alg..... 87	i	
Magmatic differentiation.			Chandos tp..... 214	viii	
Sudbury dist., arguments for.. 18, 19	c xiv		Chippewa lake..... 204	viii	
Magnesia.			Hastings co., associated with pyr-		
Effect of, in cement, detrimental. 16	B xiii		rhotite..... 197	xi	
silicate. See Meerschau.			Hints on, to prospectors..... 454	RC	
Magnesite.			Kawanaska river (near)..... 185	xii	
Description and mode of occur-			Kingston-Pembroke R'y dist.,		
rence..... 223	vi		evidence before R. C..... 131-141	RC	

	Page.	Vol.
Magnetite.—Con.		
Michipicoten div.	187	vii
Rainy River dist., 4th base line.	117	vii
Savant lake, in sand.	89, 90	xii
Seeley Bay, titaniferous, notes.	230, 231	vii
Sudbury deposits.	162	c xiv
Clarabelle mine.	40	c xiv
Foy tp.	70	c xiv
Magnetometer.		
Prospecting with, N. of L. Superior.	142	xi
Sudbury dist.	15, 57, 67, 144	c xiv
"Magnificent" H. M. S.		
Armour plate of.	163	iii
Magnus, Philip.	491	R C
Magnuson, T.	342	xii
Magpie Gold Mg. and Development Co.		
Capital and date of charter.	25	A xv
lake, MAGPIE RIVER, MICHIPICOTEN BAY.		
Altitude of low land near.	9 Bull.	iii
Description of, by Willmott.	199	vii
Route from, to Missinaibi, description.	197-199	vii
Striae near, direction.	178	ix
Swamp near, height of.	205	vii
river, MICHIPICOTEN DIV.		
Beaches near.	196	A xv
altitude.	176	ix
Brook trout in.	297	A xiv
Country at mouth of, character.	176	A xv
Glaciation on.	204	vii
Pleistocene deposits.	196	A xv
Iron ores on, with jasper.	200	x
Jaspilite east of.	309	A xiv
Minor ref. to.	185	vii
Notes on, by Willmott.	5, 6 Bull.	iii
Bain.	199-201	vii
Photo of.	286	A xiv
falls.	156	vii
falls.	295	A xiv
falls.	176, 177	xi
Prospecting on, advisable.	11 Bull.	iii
Rocks on.	144, 146	viii
166, 167	xi	
Rocks on, acid eruptives.	347	xiv
biotite picrite.	191	A xv
dikerocks.	214	A xiii
Doré conglomerate.	207, 344, 345	A xiv
petrography.	340	A xiv
granite porphyry, petrography.	176	xi
greenstone.	158	xi
iron bearing.	256	viii
322	A xiv	
schists, strike of.	140, 144	viii
similar to iron formation of Michigan.	151	ix
Route to, from Kabenung lake.	292, 293	A xiv
Missinaibi.	294, 295	A xiv
Sand plains of, valley of.	159, 164	xi
Topography of.	153	xi

	Page.	Vol.
Magpie river.—Con.		
Trees on.	296	A xiv
Waterpower on.	13 Bull.	iii
206, 252	vii	
299	A xiv	
201	A xv	
Maguire lake, MICHIPICOTEN DIV.		
Length of.	293	A xiv
Minor ref. to.	286, 287	A xiv
Mahaffy tp., ALG.		
Mattagami river in, description.	120	A xv
Soil in, analysis.	153, 154	A xv
and timber in.	120, 136, 141	A xv
Waterpower in.	129	A xv
Mahler, —?		
Analysis by, of coke and oil.	166	vi
Mahogany.		
For street paving.	104	iii
Mahoney, D. J.	66	xii
<i>Maianthemum canadense.</i>		
Abitibi Lake dist.	241	A xiv
Mattagami valley.	150	A xv
"Maid of the Mill" ss.	87	vii
Maiden's Leap Mt., MICHIBIJU LAKE, TH. B. D.	296	A xiv
Maillechort.		
Description of.	160	ii
Formula for a true.	159	ii
Nickel for making.	155	ii
"Maine" ss.		
Armour of, nickel-steel for	149, 157, 159, 163	iii
Maine, U. S.		
Iron production of, 1887.	468	R C
Main Mining Co.		
Capital and date of charter.	9	x
Nickel range.		
Report on, by Coleman.	242-273	xii
<i>See also</i> Sudbury dist.		
springs (OF WATCHES).		
Price per ton.	354	R C
Mainville, Alex. and Nichol		
Nomenclature of Windigoostigwan lake given by.	138	v
Work by, 1895.	47, 52, 53, 135, 136	v
Pierre.	40	iv
Maisonneuve tp., BERTHIER CO., QUE.		
Samarskite and beryl found in.	237	vii
Maitland, J. W.	108	ix
17	x	
32	xii	
17	B xiii	
92	vii	
James.		
Maitland, AUGUSTA TP., GRENVILLE CO.		
Gravel bar at, altitude.	222	x
Marine deposits near.	220	x
Trenton formation at.	48	B xiii
river, L. HURON.		
Erie clay on.	12	B xv
photo.	13	B xv
Section of strata on.	67	B xiii
"Majestic" ss.	109	v
H. M. S.	163	iii
47	vi	
Oil Co.		
Capital and date of charter.	25	A xv

	Page.	Vol.		Page.	Vol.
Major, G. R.	32	viii	Mamainse, MICHIPICOTEN DIV.		
Syndicate.			Copper at.....	36, 67	R C
Oil well of, Leamington.....	116	A xiv	bornite.....	194	ii
Malachite.			chalcocite.....	195	ix
Determination of.....	204	vi	chalcopyrite.....	196	ix
Exhibited at World's Fair.....	192	ii	evidence before R. C....	67, 92, 197	R C
Grant co., Oregon.....	71	B xiv	mining.....	98, 102	R C
Hardness of.....	202	vi	mode of occurrence.....	175	i
Hudson tp.....	54	A xvi	native.....	197	ix
Manitou lake.....	64	iv	Coracite at.....	194	ii
Notes on, by Goodwin.....	212	vi	.....	197	ix
Occurrences of.....	202	ix	Epidote at.....	194	ii
Port Arthur dist.....	58	B xiv	.....	198	ix
Prospecting for, hints on.....	456	R C	Galena at.....	92	R C
Specific gravity of.....	202	vi	.....	198	ix
Malahide tp., ELGIN CO.			Garnet at.....	198	ix
Oil well in.....	109	A xiv	Laumontite at.....	201	ix
Malchite.			Mesolite at.....	203	ix
Sudbury (near).....	54, 76, 123	C xiv	Population in dist. of, 1898....	147	viii
Malcolm, W.	117	ix	Rocks at and near.....	132	vi
.....	142	x	Compared to Michigan copper		
Malet, Sir E.			ranges.....	144, 145	ix
Consular report by, on peat man-			Keweenawan.....	36, 39, 102	R C
ufacture in Germany.....	212-214	ii	Photo and petrographical notes.		
Malhiol galena vein, DORION TP.,			.....	168-172	viii
TH. B. D.			Sandstone, red.....	40	R C
Rocks cut by, notes.....	38	R C	Shaft head and engine house at,		
Maligne (OR KAWAWIAGAMAK) river,			photo.....	152, 153	viii
R. R. AND TH. B. DIST.			Sphalerite at.....	209	ix
Character of.....	119, 120	v	Surveying at, early.....	126	vi
Route from, to Shebandowan lake.	125	v	Terraces at, altitude.....	153	viii
Mallincroft Chemical Co.	122	xi	Thomsonite at.....	194	ii
Malloch lake, WHITE-CLAY RIVER,			.....	210	ix
ABITIBI RIVER.			Mamainse bay. See Sand bay.		
Notes on, by Bolton.....	184	xii	copper mine, NEAR MAMAINSE		
Mallotus villosus.			HARBOUR, L. SUPERIOR.		
Ottawa.....	32	B xv	Notes on, by Coleman.....	129	viii
Greens creek ..	224	x	harbour, L. SUPERIOR.		
Malloy, Thomas.	31	A xv	Notes by Coleman, on region		
Mallory-town, YONGE TP., LEEDS CO.			around.....	128	viii
Clay plain near.....	221	x	pen., L. SUPERIOR.		
.....	241	A xiii	Copper mining on, Dawson's		
Iron at, native.....	200	ix	views. 78-82	iii	
Malone, MARMORA TP., HASTINGS CO.			history. 73-75	iii	
Country north of, character....	232	A xiii	Geology and map of.....	69-72	iii
Gold near, notes by Miller.....	198	xi	pt., MICHIPICOTEN DIV.		
mining. See Marmora tp.			Copper at.....	208, 209	v
Iron near, magnetite.....	288	viii	early knowledge.....	110	v
See also Dufferin m.			mining.....	241	ii
Mispickel near.....	52	iii	.....	4, 123, 240	iv
gold mine, MALONE, HASTINGS			.....	4	v
CO.			Notes, by Blue, on a visit to....	66-69	iii
Notes on, 1895.....	263	v	Trap rocks on.....	15	v
iron mine, MALONE, HASTINGS			river, L. SUPERIOR.		
CO.			Terraces at mouth of, level.....	155	viii
Work at, 1897.....	25	vii	Mamattawa, KENOGAMI RIVER, ALG.		
lake, NEAR LARDER LAKE, NIP.			Rocks in vicinity of.....	32	B xiii
Character of.....	221	xi	Mammals.		
Sand hills near.....	223	xi	See also the separate species.		
Maloney, T.	269	vi	Abitibi dist.....	127	A xiii
J. & Co.	28	xii	.....	242	A xiv
iron mine, MARMORA TP.,			Lake Huron slope.....	170	vi
HASTINGS CO.	133	R C	Timagami Lake region.....	58	R C
Maltha (PITASPHALT).					
Definition of.....	537	R C			

	Page.	Vol.
Mammoth gold mine, MacLENNAN TP., NIP.		
Boring in, with Govt. drill....	4, 190	v
notes.....	51	x
Notes on, 1897.....	229	v
Notes on, 1897.....	138	vii
Iron Mountain claim, N. OF BATCHAWANA BAY, L. SUPERIOR.		
Notes on, by Coleman.....	162, 163	ix
	190	x
remains. <i>See</i> Fossils.		
Manahan, Anthony	16, 20	ii
Mancelona, ANTRIM CO., MICH.		
Iron foundry at.....	340	R C
Manchester, ENGLAND.		
Arsenical poisoning in.....	121	xi
Science school at. <i>See</i> Owens college.		
Manchester, HILLSBORO CO., N. H.		
Waterpower at.....	485	R C
Mandarin Gold Mg. Co.		
Capital and date of charter.....	11	vii
Mandel, Julius		
Formulae of steel and concrete given by.....	175	A xiv
Manganese.		
<i>See also</i> Pyrolusite.		
Canada, production,		
1870, 1880, 1887.....	209	R C
1886, 1887.....	243	R C
1888.....	525	R C
exports, 1881-87.....	244	R C
Cobalt dist.....	xi	A xiii
Description and use of.....	53	R C
For steel making.....	363	R C
Hints on, to prospectors....	461, 462	R C
Ores of, notes by Goodwin.....	216	vi
United States, production.....	525	R C
ochre. <i>See</i> Bog manganese.		
spar. <i>See</i> Rhodochrosite.		
Manganite. <i>See</i> Pyrolusite.		
Manhattan Cobalt Mg. Co.		
Capital and date of charter... ..	30	A xvi
Gold Mg. Co.		
Capital and date of charter.....	9	x
Character of vein worked by....	262	viii
Depth of mine of, 1899.....	35	ix
Work by, 1898.....	273	viii
1899.....	70, 71	ix
1900.....	83, 84, 94	x
Manilla, MARIPOSA TP., VICTORIA CO.		
Marl from, analysis.....	114	B xiii
Manistee, MICHIGAN CO., MICH.		
Salt at, probability.....	189	R C
"Manitoba" s.s.	138	viii
Manitoba.		
Agricultural land of, how formed.		
91, 202		v
Consolidated gold mine, CLEARWATER, BAY, L. OF THE WOODS.		
Discovery of.....	118	R C
lake, MANITOBA.		
Remnant of L. Agassiz.....	91	v
Peat Co.		
Plant erected by, at Fort Frances.	23	A xiv
"Manitoba."	62	xi

	Page.	Vol.
Manitopeepagee lake, TIMAGAMI DIST., NIP.		
Gold prospecting near.....	176	x
Manitou Gold Mining Co.		
Capital and date of charter.....	11	vii
Gold mining by, 1898.....	75	viii
island, MANITOU LAKE, R.R.D.		
Gold mining on.....	76	vii
islands, L. NIPISSING.		
Crystalline limestone on..	81, 94, 95	B xiii
Notes on, by Barlow.....	84	B xiii
island, L. OF THE WOODS, R.R.		
D.....	186	v
lake (Lower), R.R.D.		
Accident when mining on.....	27	viii
Description and geology of....	62-66	iv
Escarpment near, section.....	79	B xiii
Gold near.....	230	iv
<i>See also</i> Manitou Lake dist.		
Iron on.....	136	xi
Nomenclature of, Coleman's views.....	52	v
Pictographs on.....	87	vi
Rocks on and near:—		
Cottiching series.....	47	iv
	153	vii
Keewatin.....	50	iv
petrography.....	87	iv
porphyrite.....	84	iv
slate.....	86	iv
Trail to, from Minnitaki lake, cut by Govt.....	10	vi
Trout in.....	55	A xiii
Water of, character.....	55	A xiii
lake (Upper). <i>See</i> Anzhekum-ming lake.		
lake, MANITOULIN ISLAND, L. HURON.		
Rocks on.....	78	B xiii
limestone.....	80	B xiii
Lake dist., R.R.D.		
Fahlbands in.....	118	vi
Gold mining in, notes on:—		
1896.....	83-87	vi
1897..	75-77, 121-125	vii
1898.....	75, 76	viii
1899.....	61-63	ix
1900.....	97-102	x
1901.....	244-249	xi
1902.....	91-93	xii
1903.....	66-70	A xiii
1904.....	51-53	A xiv
1905.....	50-53	A xv
1906.....	43, 56, 57	A xvi
discouraging.....	6	Bull. i
notes by Coleman.....	34	vii
Government roads in, notes on..	34	v
Lake Gold Mg. Co.		
Capital and date of charter.....	10	ix
Mineral Co.	104	viii
	117	ix
Mines Co.		
Capital and date of charter.....	31	A xvi
Work by, 1906.....	43, 44	A xvi
Oil and Gas Co.		
Capital and date of charter.....	26	A xv
rapid, RAINY RIVER	167	v

	Page.	Vol.		Page.	Vol.
Manitou river, RAINY LAKE DIST.			Manitowaning bay, MANITOULIN		
Dam across	34	vii	ISLAND, L. HURON.		
Surveyed by Coleman, 1895.....	3	v	Rocks on and near.....	86	i
stretch, MANITOU LAKE, R. R. D.				76, 78, 80	B xiii
Gold mining on.....	63	ix	Manly—?	59	A xvi
Manitoulin and North Shore R'y.			Mann, Dr.		
Rocks on, Sudbury dist.....	208	x	Analysis by, of cancrinite-ægy-		
arkose.....	92	C xiv	rite-syenite.....	173	viii
granite, photo.....	82	C xiv	D.D.	13	xiv
greenstone.....	81	C xiv		73	A xvi
greYWacké	89	C xiv	<i>See also</i> Mackenzie and Mann.		
norite	40	C xiv	George W.	248	iv
photo	80	C xiv	island, L. TIMISKAMING, NIP.		
island, L. HURON.			Fossils on	87	B xiii
Agricultural land on	103	iv	Rocks on	86	B xiii
Bays on, how formed	48	R C	Niagara limestone.....	174	ix
Gas in.....	140	i	tp., NIP.		
Iron in, boring for with Govt.			Photo of Frederick House river		
drill	43, 45	A xiii	in	225, 226	A xiv
Oil in	156, 157	R C	Rocks in.....	198, 210, 211	A xiv
	140	i	Soil from and near.....	246, 247	A xiv
	206	ix	Timber in and N. of. 196, 224-226,	244	A xiv
	89, 97	A xiv	Waterpower in	208	A xiv
Rocks on.....	41-44	R C	Mannheim, BADEN, GERMANY.		
	86	i	Sulphuric acid made at, notes on		
Cambro-Silurian.....	24	B xiii	process.....	195, 196	A xvi
limestone	41-44, 84	R C	Manning, Alexander		
analysis.....	74, 76	B xiii	Gold mining by, L. of the Woods.	118	R C
for building.....	93	i	Limestone quarry of, Thorold... 16	B xiii	
burning.....	94	i	and Macdonald.		
notes by Miller	75	B xiii	Marble quarrying by, near		
quarrying	101	i	Crookston	80	R C
	74, 78	R C	Manotick, OSGOODE TP., CARLETON		
quartzite	72	i	Co.		
for glass-making	94	i	Cambro-Silurian limestones at. 46, 47	B xiii	
Salt in oil wells of.....	164	R C	Mansfield, J. P.		
Portland Cement Co.			Iron mining by, McNab tp.	141	R C
Capital and date of charter	37	A xiii	Mantel, George		
Objects of	80	B xiii	Brick-making by, Crediton	71	B xv
Manitouwabin lake, PARRY SD. DIST.			Mantles (for gas burners).		
Limestone on.....	93	B xiii	Zircon for	228	vi
Manitouwick lake, MICHIPICOTEN			Manual of Explosives (by DeKalb).		
DIV.			Notes on	49	x
Altitude of.....	188	vii	Manufacturers Natural Gas Co.		
Canoeing on, dangerous	202	A xv	Capital and date of charter	30	A xvi
Description of, by Willmott. 189,	190	vii	Manure.		
Gold on	11	Bull. iii	Peat for	215	ii
mining.....	101, 184	vii	Use of liquid	143, 144	iii
prospecting.....	11	Bull. iii	Manvers tp., DURHAM CO.		
	189	vii	Stratified deposits in. <i>See</i> Ponty-		
Iron on.....	204	A xv	pool.		
north of, probability	257	viii	Manxman gold mine, NEAR HIGH		
prospecting for	256	viii	FALLS, MICHIPICOTEN RIVER.		
Length of.....	7	Bull. iii	Battery installed at	15	xii
Map of (sketch).....	203	A xv	Gneissoid rock quarried in.....	222	A xiii
Minor ref. to.....	176	A xv	Idle, 1905	67	A xv
Moraine-dammed.....	9	Bull. iii	Notes on, 1901.....	238	xi
Morainic ridges near	192	A xv	Rocks near	205	A xv
Photo of	140, 141	vii	Terraces near	190	A xv
Rocks on and near.....	203, 204	vii	Gold Mining Co.		
	201, 202	A xv	Capital and date of charter	11	xi
diorite	205	A xv	Gold mining by, Mabel lake....	73	xi
Route from, to Michipicoten....	5	Bull. iii		64, 79	xii
Terraces on and near.....	196, 206	A xv		47	A xiii
Manitowaning, MANITOULIN ISLAND,			Licence to	74	xi
L. HURON.				74	xii
Limestone at, analysis	75, 80	B xiii		66	xii
				48	A xiii
			Photo of plant and claim of. . .	64, 65	A xiii

	Page.	Vol.
Many, E. E.	104	vii
Map(s).		
Algoma dist.		
Bruce Mines region	91	R C
Ickta lake	40	iii
Michipicoten div.....	with Vol. vii	
	106, 188, 189	vii
	With Vol. xi	
Goudreau and Twin lakes ..	184	A xv
Hawk and Manitouwick lakes.....	203	A xv
iron ranges	291	viii
	159	ix
	With Vol. xi	
	" "	xiv
	" "	xv
Mamainse pen.....	70	iii
Scott's camp	336, 337	A xiv
Wawa lake, claims	120, 121	viii
Western portion.....	126, 127	viii
Missinaibi and Soveska rivers, lignite	163, 165	A xiii
Moose river, gypsum.....	155	A xiii
Opasatika river	153	A xiii
Algoma—Nipissing dist.		
boundary line and vicinity..	176, 177	vi
northern portion	With Vol. xiii	
Kenogami lake	149	A xiii
Moose and Ottawa rivers, basins of	With Vol. ix	
Northern portion.....	" "	xiii
Northern nickel range	" "	xiii
Sudbury dist.....	" "	i
	" "	ix
	" "	xiv
Bleazard mine and vicinity ..	255	xii
Creighton mine.....	45	iii
Vermilion rivers, gold areas.		
	256, 257	viii
See also below. Nipissing dist.		
Canada, 1744.....	12, 13	B xiv
Hastings and Renfrew cos.:—		
corundum deposits.....	207, 208	vii
index	205	viii
Iroquois lake.....	With Vol. xiii	
Kent co., oil and gas locations..	93	A xvi
Mines.. Austin copper mine...	91, 92	R C
Belmont gold mine....	48	iii
Caldwell location	140	R C
Copper Cliff mine. At end of Pt.	xii	
Frood and Stobie mines.		
	At end of Pt. xii	
Golden Star mine and vicinity	293	viii
Helen iron mines....	With Vol. xi	
Ophir gold mine	40	iii
Regina gold mine	180	v
Whistle location	275	xii
Nipissing dist.		
See also above. Algoma—Nipissing dist.		
Boston tp.....	261	A xiv
Cobalt silver area.....	96, 97	A xiii
Coleman tp.....	9, 10	B xiv
Hutton iron range.....	321	xii
	217	A xiii
Iron ores.....	With Vol. xi	
Larder Lake dist.	202, 203	A xvi
Timagami lake, N.E. arm....	316	xii

	Page.	Vol.
Map(s).—Con.		
Nipissing dist.—Con.		
Timiskaming Lake dist., regional disturbances	35	B xiv
Ontario —		
eastern gold belt	With Vol. xi	
iron ranges, northern (Index).	305	xii
pyrites deposits.....	151	A xvi
routes travelled by R. C. .	204, 205	R C
southern, geological (Index).	23	B xiii
western, geological.....	155	vii
Rainy River dist.	With Vol. iv	
gold regions	" "	v
L. of the Woods dist.		
Bag bay and Bald Indian bay.....	64, 65	viii
Big-stone bay, locations	173	v
Kenora and Keewatin.....	168	v
northern portion.....	12	iii
	With Vol. vi	
Regina bay	180	v
Sultana island	15	iii
Manitou Lake dist.	With Vol. iv	
meridian and base line....	172, 173	vii
New Klondike dist.....	80	vii
Thunder Bay dist.		
Animikie iron range	With Vol. xv	
Black Sturgeon lake, iron locations	312	xii
Couture lake.....	96, 97	xii
iron ranges E. of L. Nipigon..		
	108, 109	A xvi
Moss tp.....	122	v
Nipigon lake, iron locations near.....	310	xii
Sturgeon lake	39	x
Value of, to prospectors	423	R C
York Branch river, Murray, 1853.	219	viii
Map(s), REFERENCES TO		
Cobalt silver dist.....	14	A xvi
Methuen tp. (1822-3)	207	viii
Ontario, for Pan-American Ex..		
	84, 85	xi
Rainy River dist., gold regions..	3	v
Timiskaming Lake dist.....	6	B xiv
Maple.		
Blanche River region.....	179-182	xii
Fort Frances	161	v
Heating power of	54	B xv
Hudson Bay slope.....	121	iv
L. Huron slope.....	170	vi
McCann tp.....	249	A xiv
Michipicoten div.....	13	Bull. iii
	206	vii
	200	A xv
Mamainse pen.....	72	iii
Michipicoten island.....	61	R C
Mississagi dist.	166, 172	xii
Rainy Lake dist.	96	iv
Rainy river.....	117	iv
Speight's meridian line, E. of L.		
Superior	123, 150, 197, 199,	202 viii
Sudbury dist., Fairbank tp.....	105	c xiv
mountain		
Abitibi dist	126	A xiii
	242	A xiv
Mattagami valley.....	150	A xv
Michipicoten div.....	189, 191	vii
	296	A xiv
Moose River basin	176	A xiv

	Page.	Vol.		Page.	Vol.
Maple, soft			Marble.—<i>Con.</i>		
Abitibi dist.....	126 A	xiii	Sault Ste. Marie dist.....	205	R C
Michipicoten div.....	295 A	xiv	Garden river, evidence before		
sugar or rock			R. C..68, 83		R C
Brulé lake, Th. B. d.....	205	v	notes by Merritt. 76		R C
Michipicoten div.....	295 A	xiv	quarry....122, 123		viii
Timagami Lake dist.....	57	R C	lake, BARRIE TP., FRONTENAC		
borer.			co		
Night-Hawk lake	129 A	xiii	Meneghinite on.....	194	ii
City Oil and Gas Co.			Rocks on.....	202	xi
Capital and date of charter	28 A	xvi	basic dikes	219	v
Operating, Kent co., 1906..97, 99, 102 A	xvi		mica schists.....	101 B	xiii
island, MAGANATAWAN RIVER,			rapid, MARBLE LAKE, MISSISS-		
P. S. D.			IPPI RIVER	220	v
Limestone on	94 B	xiii	rock, GANONOQUE RIVER.		
lake, FLOATING-HEART CREEK,			Pleistocene deposits near	241 A	xiii
L. SUPERIOR.			Marblehead.		
Rocks on and near	349 A	xiv	Pyroxenes and feldspars at.....	438	R C
cherts	316 A	xiv	Marcasite.		
iron formation.....	336 A	xiv	Annaberg, Saxony	61 B	xiv
Trees near.....	296 A	xiv	Determination of.....203, 204,	220	vi
“Maple Leaf” ss.....52,	160	v	Dinorwic, near.....	125	vii
Maple Leaf Gold Mg. Co.			Harcourt tp.....	48	xi
Capital and date of charter.....	10	vii	Hardness of.....	202	vi
mt., W. OF LADY EVELYN LAKE,			Joachimsthal, Bohemia	61 B	xiv
NIP.....	72	i	Occurrences of.....	203	ix
pt., MANITOULIN ISLAND, L.			Port Arthur dist.....	54, 55, 58 B	xiv
HURON.			exhibited at World's Fair.....	187	ii
Oil at.....	72 A	xv	Silver islet.....	86	v
Rocks at	77 B	xiii	Specific gravity of.....	202	vi
Mappin, Sir T.	247	i	Sudbury dist., Murray m.....	281	xii
Maquenne, Leon	144	iv	Worthington m .	158 C	xiv
Mara tp., ONTARIO CO.			Marcellus shales.		
Trenton formation in.....	89 B	xiii	Composition of.....	99 A	xiv
Marbeau.			Marchantia polymorpha.		
Nickel-alloy discoveries by.....	382	R C	Abitibi Lake dist.....	242 A	xiv
.....	145	ii	Margach, William		
.....	175, 176 C	xiv	Crown Timber agent	47	v
Marble.			Evidence by, before R. C. re:—		
Actinolite, Ont.....200,	204	xi	free-trade.....	233	R C
.....	86	xii	iron, Port Arthur dist.....	144	R C
Bancroft, near, quarry.....	107 A	xv	U. S. location system	311	R C
.....	82 A	xvi	Minor ref. to.....231,	232	ii
Barrie tp.....	220	v	Trustee, mineral collection,		
Canada, production, 1886-87	243	R C	Kenora.....	200	vi
Definition of	69, 537	R C	Work by, 1893.....	40	iv
Duty on, effect of	217, 235,	R C	Margach, NEAR ROSSLAND, R. R. D.		
into United States.....82,	228	R C	Gold mining near. <i>See</i> Bad gold		
Evidence <i>re</i> , before R. C.			mine		
.....	68, 69, 80-84	R C	Margaret lake, NEAR STEEP-ROCK		
Exhibit of, at World's Fair	186	ii	LAKE, R. R. D.		
Gypsum constituted for	280	vi	Rocks on.....	72	v
Madoc tp., evidence before R. C.			Mg. Co.		
.....	80, 81,	B C	Capital and date of charter	26 A	xv
Madoc (near).....	204	xi	Marginal deposits.		
notes by Chapman..	81	R C	Sudbury dist., notes by Coleman.		
New York and Vermont, com-			.....	19, 20 C	xiv
pared with Hastings co.....	80	R C	Marie Louise lake, N. OF L. SU-		
Nipigon river.....	233	R C	PERIOR, TH. B. D.	137	vi
Notes on	11 B	xiii	Marin, Capt. Nicholas.	188, 189	v
by Merritt	75, 76	R C	Marine City, ST. CLAIR CO., MICH.		
Miller	11, 12 B	xiii	Salt at.....	55, 187,	R C
Ontario, quality in eastern.....	234	vii	shells.		
Renfrew co., evidence before			McGregor lake, N. of Ottawa, al-		
R. C.	82, 83	R C	titude	216	x
notes by Merritt. 76		R C	Marion, CRITTENDEN CO., KEN.		
			Cobalt and nickel near.....	71 B	xiv

	Page.	Vol.
Marion, GRANT CO., IND.		
Natural gas in, depth and pressure.....	155	i
lake, PART OF PYRRHOTITE LAKE, MICHIPICOTEN DIV.		
Length of.....	294	A xiv
Rocks near, iron-bearing.....	315	A xiv
notes.....	306	A xiv
lake, S. OF MATAGAMING LAKE, ALG.		
Rocks on.....	106	xii
Mariposa gold claim, MICHIPICOTEN DIV., ALG.		
Idle, 1905.....	67	A xv
Notes on, 1900.....	139	x
1902.....	65, 80	xii
1903.....	47	A xiii
Mining Co.		
Capital and date of charter.....	9	xii
Gold mining by, Michipicoten div.....	65	xii
tp., VICTORIA CO.		
Marl in. See Manilla.		
Markdale, GLENELG TP., GREY CO.		
Terrace near, altitude.....	177	ix
Markwell, Clinton	53	vii
Marks, George T.	134	vii
85	ix	
Samuel A.	206	v
Thomas		
Evidence by, before R. C. re:—		
building-stone, L. Huron.....	79	R C
forest fires.....	311	R C
free-trade.....	235	R C
technical education.....	429	R C
Iron prospecting by, Atikokan		
range.70, 76	ii	
Loon lake..	254	A xiv
Marl.		
Analyses of, used by cement cos.	183	A xiv
Composition of.....	120	A xiv
Definition of.....	542	R C
For making carbon-di-oxide.....	5	B xiii
cement.....	18	B xiii
whiting.....	14	B xiii
Localities supplying cement		
works.....	133-162	A xiv
New Jersey, U. S., production,		
1888.....	525	R C
Occurrences of.....	121, 122	A xiv
Paper on, by Gillespie.....	119-123	A xiv
Addington co., Sheffield tp.....	28	B xiii
Black bay, L. Superior, associated with galena.....	36	R C
Brant co.....	34	B xiii
Brant tp.....	37	B xiii
Dumfries tp., Blue lake.....	33, 149	xii
Bruce co., Carrick tp.....	37	B xiii
Carleton co.....	39	B xiii
Dufferin co., Garafraxa tp., E..	16	x
Emerald lake, near L. Timiskaming.....	87	B xiii
Frontenac co.....	43	B xiii
Loughborough tp.....	46	B xiii

	Page.	Vol.
Marl.—Con.		
Grey co.....	50	B xiii
analysis.....	51	B xiii
Durham.....	17	x
Shallow lake.....	108	ix
31, 32	xii	
Wilder lake.....	32	xi
32	xii	
Williams lake, analysis.....	108	ix
Hastings co.....	59	B xiii
Marlbank.....	109	ix
analysis.....	16	x
White lake.....	66, 106	B xiii
Lanark co., Lavant tp.....	71	B xiii
Manitoulin island.....	76	B xiii
Ice lake.....	80	B xiii
Montreal river, N. of northern		
arm, analysis.....	209	A xiv
Moose river.....	127	iv
Ontario co.....	90	B xiii
Peterborough co., Buckley lake.	17	x
Pitikigouching river, analysis...	112	B xiii
Port Arthur-Duluth railway,		
along.....	111	B xiii
Renfrew co.....	106	B xiii
Mink lake.....	107	B xiii
Ross tp.....	107	B xiii
Thunder Bay, quarried.....	170	A xv
Victoria co., Manilla, analysis...	114	B xiii
Waterloo co., Berlin.....	191	i
Dumfries tp., N.		
115, 116	B xiii	
Blue lake.....	17	x
32	xi	
Wellington co., analysis.....	122	B xiii
Westmeath tp., analysis.....	107	B xiii
Marland, Neely, & Co.	120	ii
Marlbank, HUNGERFORD TP., HASTINGS CO.		
Cement at and near.....	109	i
See also Canadian Portland Cement Co.		
Works at.....	170	iv
31, 32	xii	
17, 18	B xiii	
137, 138	A xiv	
Marl at.....	59	B xiii
analysis.....	16	x
and clay from.....	109	ix
Marmora. HASTINGS CO.		
Asbestos from, exhibited at		
World's Fair.....	139	ii
Geology of vicinity.....	194	xi
Gold near, mining, (idle).....	236	iv
stamp battery, notes.	224	i
237	ii	
236	iv	
plans and notes....	56-61	iii
Iron ore in.....	36-39	ii
notes by Vennor.....	41, 42	ii
See also Seymour iron bed.		
smelter.....	191	ii
204	vi	
cost.....	321	R C
history.....	14-21	ii
notes by Hardy.....	321-323	R C
statements before R. C....	389	R C

	Page.	Vol.
Marmora, HASTINGS CO.—Con.		
Lithographic stone near.....	204	xi
analysis	6, 59	B xiii
exhibited at Pan-American	61	B xiii
Exhibition.....	88	xi
Mining class at.....	215, 216	v
	260	vii
Zinc-blende near	38	iv
Foundry Co.		
History of.....	21	ii
Gold and Iron Mg. Co.		
Capital and date of charter.....	10	vii
Iron Works Co.		
Cost of iron production by.....	331	R C
Exhibition of, in London, 1851.	33	ii
Notes on, by Hardy	322, 323	ii
Macfarlane.....	322	R C
Section of river banks at plant of.	59, 60	B xiii
lake, HASTINGS CO.		
Lithographic stone on.....	53	R C
Reduction Co.		
Capital and date of charter.....	11	vii
Notes on plant.....	236	iv
tp., HASTINGS CO.		
Arsenical ores in.....	52	iii
	113	vi
	205	ix
	102-105	xi
mined	97	iii
notes	196, 197	xi
percentage	237	iv
production, 1885-1901.	111	xi
<i>See also below, Gold.</i>		
Atlas Arsenic Co.		
Deloro g. m.		
Epidote and epsomite in	198	ix
Galena and garnet in	198	ix
Gold in.....	199	ix
evidence before R. C..	65, 66, 110	R C
mining	53	iii
	263, 264	v
<i>See also Cook Land Co.</i>		
Pearce g. m.		
notes by Bell.....	28	R C
Rothwell	107	R C
prospecting	263	v
Graphite in.....	199	ix
Iron ore in.....	31	ii
exhibited in London.....	31-33	ii
World's Fair....	82	ii
estimate of quantity.....	35	ii
hematite.....	199	ix
magnetite.....	202	ix
quality	191	ii
mining, 1891.....	237	i
siderite	209	ix
Lepidomelane in.....	201	ix
Lithographic stone in.....	41, 43	R C
	213	viii
analysis	61	B xiii
mining	9	iii
notes by Volney.....	183, 184	ii
Malachite in.....	202	ix
Melanite in.....	203	ix
Minerals found in, list of....	193, 194	ii

	Page.	Vol.
Marmora tp., HASTINGS CO.—Con.		
Rocks in, greenstone dikes.....	15	v
marble	62	B xiii
serpentine.....	209	ix
Sphalerite in.....	209	ix
Stibnite in.....	190	ii
	210	ix
Marmot.		
Moose River basin.....	178	A xiii
Marquette Iron range, MICH.		
Chert in, ferruginous.....	185	ix
Geological nomenclature.....	270	A xiv
Iron ore in.....	20	R C
compared with that of Michipi-		
coten div.....	195-197	x
hematite	64	ii
notes by Coe.....	467	R C
production, 1884-88.....	226	R C
1892-3	146	iii
Jaspilites of.....	166	x
Notes on, by Coleman.....	150-152	ix
Marseilles, FRANCE.		
Nickel refinery near.....	151	ii
Marshore bed, MARMORA TP., HAST-		
INGS CO.		
Magnetite and pyrrhotite of.....	197	xi
Marshall, D. H.	216	i
Peter	39, 41	A xiii
William		
Brick-yard of, Woodstock.....	86	B xv
Foundry Co.	120	ii
mills, AUSABLE RIVER.		
Hamilton formation at.....	155	xii
	69	B xiii
Shales at, for pottery.....	156	xii
	70	B xiii
Marshfield, COLCHESTER TP., ESSEX		
CO.		
Artesian wells in.....	59	i
Natural gas in.....	120	i
Marshy lake, VERMILION RIVER.		
Character of.....	223	xi
Gold prospecting in.....	256	viii
	151-154	x
Minor ref. to.....	168	vi
Striae on, direction.....	181	vi
Martel (OR WILSON) iron mine,		
BAGOT TP., RENFREW CO.		
Notes on, by Grady.....	136	R C
Ore from, for Pennsylvania.....	191	iii
Marten.		
Abitibi dist.....	193	viii
	189	xii
	127	A xiii
	242	A xiv
Hinterland, The.....	133	iv
Mattagami valley.....	131	A xv
Michipicoten div., rare.....	297	A xiv
Timagami Lake dist.....	58	R C
Marter tp., NIP.		
Rocks in.....	216, 217	xi
Sand-hills in.....	225	xi
Martha mica mine, N. BURGESS TP.,		
HASTINGS CO.		
Notes on, 1893.....	194	iii
1901.....	290	xi
1902.....	128, 129	xii
1905.....	104, 105	A xv
Operating, 1906.....	23, 89	A xvi

	Page.	Vol.		Page.	Vol.
Martin, —? (1850).....	174	ii	Maskinonge lake, NIP.		
C. E.			Slates between and Round lake.	73	i
Gold mining by, Michipicoten			river, STURGEON RIVER, NIP.		
div.....	73, 74	xi	Character, depth and width of...	176	vii
	66	xii	Maskinonge=Wagaming LAKE, TIMA-		
D.			GAMI DIST., NIP.		
Brick-yard of, Thamesville.....	73	B xv	Roofing slate on	93	i
H. G.	104	vii	Mason, C.		
	104	viii	Brick-making by, Carlton West..	107	B xv
	117	ix	Simcoe.....	29	xii
	142	x		85	B xv
S. B.	75	A xiii	John		
William 201, 210-213, 244		iv	Iron smelting by, 1813..319, 320, 327		R C
& Co.			13		ii
Brick-yard of, Alvinston.....	74	B xv	William	263	vii
falls, ALBANY RIVER.			Science college, BIRMINGHAM,		
Albany river navigable as far as..	103	iv	ENGLAND.		
Character of river below.....	111	iv	Notes on, by Richards.....	512	R C
	111	B xiii	"Massachusetts" ss.	224	ix
Coal near.....	125	iv	Massachusetts, U.S.		
gold mine, COUTURE LAKE,			Corundum in.....	241	viii
TH. B. D.	86	xii	Institute of Technology.		
Martindale, Frederick	112	i	Notes on, by Mathers.....	503	R C
Thomas			Richards	510	R C
Gypsum mining by, Oneida tp... 122		R C	system employed at.	417	R C
1891.....	112, 242, 243	i	Massagamashine lake, S. OF L. NIPi-		
1892.....	253	ii	GON, TH. B. D.		
1893.....	199	iii	Gabbro on.....	296	xii
1894.....	251	iv	petrography.....	182	ix
1895.....	282	v	Massasauga pt., BAY OF QUINTE,		
<i>See also Martindale gypsum mine.</i>			L. ONTARIO.		
gypsum mine, ONEIDA TP.,			Black River formation at.....	27	B xiii
HALDIMAND CO.			Massassaga lake, FRONTENAC CO.		
Analysis of gypsum from.....	56	B xiii	Gold mining near. <i>See</i> Big		
Idle, 1897.....	100	vii	Dipper mine.		
Notes on, 1896.....	280	vi	Massenez, Joseph		
Martineau bay, L. TIMISKAMING.			Inventor of Hoerde process.....	92	ii
Rocks near.....	48	B xiv	Massey, H. A.		
Martinique, Island of			Evidence by, <i>re</i> the iron trade.		
Disaster at, caused by gas.....	93	A xiv	330, 401		R C
Martino, Guiliano	29	A xv	creek, WANAPITEI LAKE, NIP.		
Martite.			Gold on, reported.....	256	vii
Bass lake.....	194	ii	Nickel range on.....	202	xi
	203	ix	Rocks on and near.....	73	C xiv
Dalhousie tp.....	203	ix	diabase dike.....	203	A xiii
Marvin, John J. 152, 156,		vi	nickel bearing.....	202	A xiii
Maryborough tp., WELLINGTON CO.			Station, SALTER TP.		
Onondaga limestone in.....	122	B xiii	Agricultural land near.....	103	iv
Maryland, U. S.			Copper near.....	37	x
Amount of land in, that may be			mining. <i>See</i> Massey Station m.		
held.....	284	R C	Concentration by oil-process at.11, 44		A xiv
Marymount, Abraham 93		ix	Diabase (?) near, description....	107	xii
Marysburg tp., PRINCE EDWARD CO.			Mining Agency at, report on,		
Terrace in. <i>See</i> Cressy and			1900 ....146, 147		x
Waupoos.			1901.....	81, 82	xi
Marysville, TYENDINAGA TP., HAST-			Saugeen clay near.....	22	B xv
INGS CO.			Slate near.....	93	C xiv
Altitude of.....	222	x	Water-power near. <i>See</i> Sable		
Marysville, WOLFE ISLAND, L. ONT-			river.		
TARIO.			Station copper mine, MASSEY		
Limestone near, fossiliferous....	44	B xiii	STATION, ALG.		
Mascotte gold mine. See La Mascotte.			Accident at.....	56, 57	xi
Masillon, misprint for Massillon.			31-33		A xv
Maskinonge, ROUND LAKE, OTTO TP.,			Elmore concentrating plant at..11, 44		A xiv
NIP.	189	xii	Mining class at.....	51	A xiii
lake, W. OF MINNITAKI LAKE,			41		A xiv
R. R. D.			Minor ref. to.....	58	A xiii
Character of country near.....	176	vii	Notes on, 1900.....	120	x
Clay area near.....	182	vii	1901.....	267	x
Rocks on and near.....170, 182		vii	1902.....	97, 98	xi

	Page.	Vol.		Page.	Vol.
Massey Station copper mine.—Con.			Matawin river.—Con.		
Notes on, 1903.....	79	A xiii	Rocks of, similar to iron forma-		
1904.....	60, 61	A xiv	tion of Michipicoten.....	151	ix
1905.....	67	A xv	Storm on.....	119	v
1906.....	68	A xvi	Surveyed by Coleman, 1895.....	3, 4	v
Ores of, treated at Victoria mines.	72	A xiv	Waterpower on.....	133	v
Photo of.....	96, 97	A xiii		252	vii
	61	A xiv	Match, Albert.....	56, 57	xi
Sulphide deposits in.....	11	A xiv	Matchedash bay, GEORGIAN BAY, L.		
Station Mg. Co.			HURON.		
Capital and date of charter.....	11	xi	Minor refs. to.....	198	v
Exhibit of, at Pan American				89	B xiii
Exhbtn.....	82	xi	Trenton limestone on.....	41	R C
Work by, Salter tp.....	81, 267	xi	Matches.		
Massillon, STARK CO., OHIO.			Peat fibre for, in lieu of wood...	215	ii
Coal of.....	201	i	Matchett—?.....	98	vii
calorific power.....	207	ii	Matchinini, Alexander (INDIAN)...	129	viii
Masson, L. R.....	197, 198	v	Mather, John.....	120	vii
Master Jack gold mine, BLINDFOLD				101	x
LAKE, L. OF THE WOODS.			R. A.....	99	viii
Notes on.....	111	vii	William		
Matabitchuan river, TIMISKAMING			Report by, on technical schools		
LAKE, NIP.			in U.S. (extracts).....	502-509	R C
Fall on, between Rabbit and Bass			timber limit, L. OF THE		
lakes.....	174	ix	WOODS, R.R.D.,.....	14, 21	iii
Minor refs. to.....	172, 173	ix	Matheson, A.....	104	vii
Norway pine on.....	58	R C	Alexander, (H.B.C.)		
Slates on.....	73	i	Evidence by, before R.C. re:—		
for roofing.....	56	R C	Custom mill, L. of the Woods.	427	R C
	93, 168	i	Winnipeg Consolidated mine.		
Striae on, direction.....	178	ix		117, 446	R C
Matatchewan lake, MONTREAL RIVER.			ref. to.....	20	iii
Glacial deposits near.....	183	vi	Mica mining by, L. of the Woods.	64	R C
Matagama, ALG. See Metagama.			Notes by, on Kenora.....	170	v
pt., L. TIMAGAMI, NIP.			Charles Albert		
Iron ore on.....	201	x	Peat making by.....	23	ix
notes by Miller.....	168, 169	x	T. G.....	55	i
Matane, MATANE CO., QUE.			and Co.		
Peat at.....	198	ii	Promoters of Canadian Gold-		
Matastagan lake, S.E. OF RICE			fields.....	58	vi
LAKE, ALG.....	131	ix	apatite mine, N. BURGESS TP.,		
Matawagogig lake, ABITIBI DIST.			LANARK CO.		
Pine on.....	119	iv	Evidence re, before R.C.....	174	R C
Matawapiki, LADY EVELYN LAKE,			bay, L. OF THE WOODS, R.R.D.	9	vi
NIP.			tp., ALG.		
Minerals on ..	24, 25	B xiv	Soil and timber of.....	108, 125, 134	A xiii
argentiferous galena.....	101	A xiii	Mathieson, Rev. D.		
Matawatchan tp., RENFREW CO.			Geological Survey of Canada		
Muscovite in.....	205	ix	suggested by.....	220	i
Matawin iron range, TH. B.D.			Mathieu—?		
Boring in.....	35	x	Process of, for charcoal furnaces.		
	25, 58	xi		481, 482	R C
Notes by Blue.....	130-132, 210, 211	v	Matilda tp., DUNDAS CO.		
Miller.....	309	xii	Limestone in. See Iroquois.		
Ore of, in Keewatin formation..	30	B xiv	Morainic drift in. See Irena.		
Report on, by Coleman.....	80-84	v	Mattagami lake, MATTAGAMI RIVER,		
Supply of ore of, undoubted.....	86	ii	MOOSE RIVER.		
river, SHEBANDOWAN LAKE			Agricultural land near ..	114	iv
DIST.			Chalcopyrite on.....	196	ix
Alluvial clay and sand on.....	84	v	Gold on.....	141	ix
stratified.....	146	xi	Gravel beds on.....	210	x
Glacial striae on.....	89	v	Notes on, by Bell.....	76	i
Iron ore on.....	123	iv	Coleman.....	181, 182	x
	276	v	northern branch.....	127	ix
associated with jasper.....	163	ix	Pine on.....	120	iv
boring for.....	88	ix	Rocks on, and near, Huronian..	18	R C
mining, notes by Blue.....	132	v		124	iv
notes by H. L. Smith.....	76	ii	volcanic conglomerate.....	141	ix
See also Matawin iron range.					

	Page	Vol.		Page	Vol.
Mattagammi river, MOOSE RIVER.			Mattagamashing lake.—Con.		
Agricultural land along and near. 207 A	xiv		Gold mining on and near, 1897.	140, 141	vii
report by Henderson.....136-155 A	xv		See also Crystal g.m.		
Clay ironstone on 52	ii		stamp-mill on..... 87	vii	
	32 B	xiii	Photo. of part of 124, 125	vii	
Country between, and Moose			Quartzites on, feldspathic..... 72	i	
river, description..... 114	iv		Mattagamishing lake, MONTREAL		
Explorations on, report by Kerr.			RIVER. See Bay lake.		
	116-135 A	xv	Mattamasagami lake, TH. B.D.		
Forest fires on..... 177 A	xiii		Rocks on and near..... 124	iv	
Fossils on, marine..... 51	R C		Mattawa, NIP.		
Iron ore on..... 317	xii		Agricultural land near..... 103	iv	
	9 A	xiii	Country between, and Winnipeg.		
analyses and notes..... 126	iv		See also Woodland div 108	iv	
limonite.....138, 152-154 A	xiii		Distance from, to Ingolf..... 193	v	
pyrites 128	iv		Iron ore in dist. of..... 61	R C	
	180, 181 A	xvi	Mining class at..... 282	viii	
geological relationship 182 A	xvi		Trenton formation near..... 84 B	xiii	
spathic..... 77	ii		Mattawan river, MONTREAL RIVER,		
Length of..... 103	iv		L. SUPERIOR.		
Lignite on. 70	R C		Notes on, by Charlton..... 200	viii	
	125	iv	Route from, to Dalton, notes.... 199	viii	
Minor ref. to..... 201	v		river, OTTAWA RIVER.		
Notes on, by Coleman.....181, 182	x		Area of Ontario south of..... 182 A	xvi	
McMillan ... 186 A	xiv		Mattawin Iron Mg. Co.		
Parks..... 127	ix		Capital and date of charter..... 11	vii	
Ochres on..... 128	iv		Govt. drill lent to..... 58, 60	xi	
Photo of portion... 129, 130, 137, 145 A	xv		Locations of, notes on..... 130, 131	v	
Portages on..... 105	iv		position 82	v	
Rocks on and near..... 121 A	xiii		Notes on work by..... 130-132	v	
chloritic-schists 120 A	xiii		river AND range, TH. B. D.		
diabase..... 76	i		See Matawin.		
glacial age..... 143 A	xiii		Mattawishquaia river, MISSINAIBI		
limestone, Corniferous..... 47	R C		RIVER, ALG.		
fossiliferous..... 32 B	xiii		Granite on, petrography..... 209	x	
quartz-porphry 210 A	xiv		Minor refs. to..... 195	viii	
petrographical notes..... 134 A	xv			145 A	xiii
soapstone..... 81	i		Matte (NICKEL).		
Route from, to Night-hawk lake,			Norway, analysis..... 154 C	xiv	
description..... 129	ix		Sudbury dist., analysis 380	R C	
	105-108 A	xiii		154	ii
Soil along..... 176 A	xiii			152 C	xiv
See also above. Agricultural			Matthews, Oliver		
land.			Copper mining by, L. Superior,		
Trees on..... 220 A	xiv		1848 ... 171-173	i	
Tributaries of, notes by Kerr.117-124 A	xv		W. A.		
Valley of, notes by McMillan.			Copper mining by, Michipicoten		
	188-190, 195 A	xiv	island 103	R C	
terraced 147 A	xiii		Director of Marmora Foundery		
Water of, clear..... 190	viii		Co..... 21	ii	
Waterpower on..... 252	vii		iron mine. See Yankee iron		
	142	ix	mine.		
	145 A	xiii	Mattson, Samuel..... 201, 206, 207	iv	
	128, 129 A	xv		31	vii
Mattagamming lake, MICHIPICOTEN			Mauch Chunk, CARBON CO., PENN.		
DIV., ALG.			Analysis of anthracite from..... 5 Bull.	ii	
See also Lochalsh.			Minor refs. to..... 41	i	
Rocks on..... 253	v			118	ii
lake, S. OF GROUND-HOG LAKE,			Maud lake, L. OF THE WOODS REG.,		
ALG.			R. R. D.		
Description of, and vicinity..... 132	ix		Notes on, by Coleman..... 116	vii	
Forest fires on 141	ix		Maw, John		
Pine on..... 141	ix		Gold mining by, The New Klon-		
Rocks on..... 106	xii		dike..... 74	viii	
Waterpower on..... 142	ix			102	x
Mattagamashing lake, E. of WAN-			Maxim, Hiram S.		
APITEI LAKE, NIP.			On electrical power for railways.		
Conglomerates on 203	x			133, 134	v

	Page.	Vol.		Page.	Vol.
Maxse, Sir Henry	221	i	Medina formation.—Con.		
Maxwell, C. F.	117	ix	Gas in.....	4	i
	142	x	boring for.....	130-138	i
James	27	ix	theory of.....	156, 157	i
gold claim, LARDER LAKE.			Notes and occurrences.....	128	iii
<i>See Harris-Maxwell gold claim.</i>			by Bell.....	43	R C
May, E.	104	viii	Ohio.....	156	i
	117	ix	comparison with Canadian.....	119	iii
	142	x	Oil in, thickness of formation....	96	A xiv
	74	xi	yield.....	23	A xvi
	66	xii	Position of, in Silurian.....	2	R C
	48	A xiii			
Jane	74	xi	Bruce co.....	35	B xiii
W. J.	340	xii	Dufferin co., Mono tp.....	99, 100	i
tp., ALG.			Haldimand co., Caledonia.....	128	i
Copper prospecting in.....	68	A xv		252, 283	v
Granite in.....	69	i	gas in.....	128	i
Mayflower gold mine, SEINE RIVER,			Halton co.....	57	B xiii
R. R. D.			Campbellville.....	16, 17	v
Notes on, 1900.....	84	x	Milton, photos.....	9, 67	B xv
Mayo Mg. and Development Co.			Lincoln co., Grimsby.....	97	i
Capital and date of charter.....	24	A xiii	Peel co.....	95	B xiii
tp., HASTINGS CO.			Brampton, analysis.....	89	B xv
Iron ores in, analysis.....	97	A xv	Port Credit, ".....	90	B xv
mining. <i>See Min-</i>			Welland co., Port Colborne.....	129	i
<i>eral Range Iron</i>			section.....	97	A xiv
<i>Mg. Co.</i>			Wentworth co.....	95	B xiii
tests on.....	333, 334	xii	Fruitland, analysis.....	105	B xv
Mazinaw lake, MISSISSIPPI RIVER,			Hamilton, for sewer pipes... ..	116	B xv
ONT.			York co., Mimico and Swansea.		
Granite-pegmatite dikes in.....	91	A xiii	for sewer pipes.....	117	B xv
Limestone in, analysis.....	45	B xiii	Gold Mining Co.		
dolomite.....	198	ix	Coe iron mine optioned to.....	80	A xiv
Mica in, mining.....	220	v	worked by.....	90	A xv
	205	xi	Meerscham, (SILICATE OF MAG-		
	91	A xiii	NESIA).		
	84	A xiv	North Burgess tp	138	R C
Portages numerous near.....	218	v	<i>Megambonia.</i>		
Mazokama, W. OF ROSSPORT, L.			Kwataboahagan river.....	158	A xiii
SUPERIOR.			<i>Megaptera longimana.</i>		
Zinc near.....	86	ix	Smiths Falls.....	217, 224	x
Mead, Daniel W.			<i>Megascops asio.</i> <i>See Owl, screech</i>		
Paper by, on brick pavements,			Megatherium gold mine, JACKFISH		
extracts.....	114, 121	iii	BAY, L. OF THE WOODS.	82, 135, 136	vii
ref.....	112	iii	Gold Mg. Co.		
F.	117	ix	Capital and date of charter.....	11	vii
William	125	i	Mehkwanegon rapid, MATTAGAMI		
Meaford, St. VINCENT TP., GREY CO.			RIVER. <i>See Poplar rapid.</i>		
Brick-yards in, notes.....	65	B xv	Meissner, C. A.	196	A xvi
Terraces near, notes by Coleman.			Mekesewasun rapid, GROUND-HOG		
	176, 177	ix	RIVER, ALG.	132	ix
Meaiten, Fred	39, 41	A xiii	Mekiskan river. <i>See Migiskan</i>		
Measles.			river.		
Among Indians....	178	A xiii	Melaconite (COPPER OXIDE OR TEN-		
Mechanicsville, OTTAWA.			ORITE).		
Limestone quarry near. <i>See</i>			Hints on, to prospectors.....	456	R C
<i>Wright's quarry.</i>			Melan concrete system.		
Medicine Lodge gold mine, BLIND-			Description and sketch of.....	178	A xiv
FOLD LAKE, L. OF THE WOODS.			<i>Malandia acuta.</i>		
Notes on, 1897.....	111	vii	In Saugeen clay.....	26	B xv
Medina, ORLEANS CO., N. Y.			" <i>conica.</i>		
Medina formation named after..	43	R C	In Saugeen clay.....	26	B xv
copper mine. <i>See Eldorado</i>			Melanite (GARNET).		
copper mine.			Marinora tp.....	203	ix
formation.			Melanterite (GREEN VITRIOL).		
Analysis of, from various localities.	8	B xv	Hastings co. and L. Superior....	194	ii
Brick-clay in.....	4, 101-104	i	Occurrences.....	203	ix
	120	A xv	Melaphyre.		
Characteristics of.....	7	B xv	Goldspitz, Bohemia.....	171	viii

	Page.	Vol.
Meldrum Bay, DAWSON TP., MANI-TOULIN ISLAND.		
Limestone near, analysis.....	75, 76	B xiii
notes.....	79, 80	B xiii
photo.....	96	B xiii
Mellilite.		
Abitibi river.....	185	viii
<i>Meloe angusticollis.</i> See Beetle, butter-cup oil		
Melons.		
Moose Factory.....	107	iv
<i>Melospiza fasciata.</i> See Sparrow, song		
Memphis, TEN.		
Brick pavement in.....	109	iii
Menaccinite. See Titaniferous iron ore.		
Menard, Louis	51, 57	xi
Mendeljeff, Dmitri L.		
Views of, on origin of hydro-carbons....	164	vi
gas.....	141	i
oil.....	92	A xiv
Mendoron (WYANDOTTE CHIEF)	126	xi
Meneghinite.		
Barrie tp.....	208	vi
	203	ix
	203	xi
Hardness of.....	202	vi
Marble lake, Frontenac co.....	194	ii
Palmerston tp.....	219	v
Specific gravity of.....	202	vi
Menhinnick, J. R.	24	vi
Mennie, Alex.	36	viii
Menominee iron range, L. SUPERIOR, U. S.		
Iron shipments from, 1884-8....	226	R C
1892-3....	146	iii
<i>Mentha canadensis.</i>		
Abitibi dist.....	241	A xiv
Mattagami valley.....	150	A xv
<i>Menyanthes trifoliata.</i>		
Abitibi dist.....	241	A xiv
Mattagami valley.....	150	A xv
Menzie, R. E.	164	R C
Meppen.		
Experiments at, with nickel-steel guns.....	140	ii
Mer Bleue bog, CARLETON CO.		
Area of.....	197	ii
Notes on.....	190	i
	29, 30	A xiii
Tests on moss from.....	190	vi
Merchant's quarry, COLLINGWOOD, SIMCOE CO.		
Analysis of limestone from.....	110	B xiii
Mercury.		
Clearing of, by alkali.....	241	vi
Indria, Austria, with arsenic....	101	xi
Melting point of.....	540	R C
Separation of fine gold by... 451,	452	R C
Test for.....	449	R C
Treatment of floured, from plates.	241	vi
United States, statistics, 1888....	525	R C
Wawa lake, near (?).....	195	vii
Meredith, E. A.	127	vi
claim, MAMAINSE PEN., L. SUPERIOR.		
Galena in.....	198	ix

	Page.	Vol.
Meredith tp., ALG.		
Rocks in.....	188	x
Striae in, direction.....	211	x
Merian, A.		
Analysis by, of laurvikite from Norway.....	211	xi
Meristella.		
Anderdon tp.....	126	xi
Merlin, RALEIGH TP., KENT CO.		
Minor ref. to.....	92	A xvi
Oil and gas supply of.....	97-101	A xvi
Merriam, W. N.	270	A xiv
Merrick, W. C.	117	ix
	142	x
	74	xi
Merrickville, WOLFORD TP., GREN-VILLE CO.		
Calciferous formation at.....	47	B xiii
Iron works at.....	329	R C
Merrifield, L. L.		
Gas generator of, paper on.. 228-233		xii
Merrill, Frederick J. H.	242	A xiii
Merrimac river, U. S.		
Waterpower of.....	485	R C
Merriman, Prof. Mansfield		
Tests by, on nickel-steel.....	187	iv
Merritt, Thomas A.	12, 77	vii
W. J.	73, 129	vii
William Hamilton		
Appointed on R. C.....	x, xxiv	R C
Mineral collections for local use suggested by.....	260	vii
Mining lectures given by, at Mar-mora.....	180	iii
ref. to.....	248	vi
Notes by, on:—		
iron works, Kinmount....	326, 331	R C
Michigan mining school.....	507	R C
mines, locations and works visited by R. C.....	71-204	R C
Report by, on purchase of Govt. drills.....	167-171	iv
Report by, on Summer Mining classes, 1894.....	215-218	v
Summer Mining classes conducted by, 1896.....	198	vi
Work by, 1895.....	6	v
Merritt gypsum mine, GRAND RIVER.		
Evidence re, before R. C....	121, 122	R C
Gypsum in, thickness of.....	45	R C
Idle, 1893.....	199	iii
Notes on, 1891.....	242	i
1892.....	252	ii
tp., ALG.		
Clay in. See Espanola.		
Merritton, GRANTHAM TP., LINCOLN CO.		
Carbide factory at.....	6	vi
	140	xii
	25	A xvi
See also Willson Carbide Co.		
Cyclone at, 1897.....	17	viii
Stone saw-mill at.....	96	i
	119	B xiii
Merry, A.		
Notes by, on nickel in Levack tp.	274	v

	Page.	Vol.		Page.	Vol.
Mersea tp., ESSEX CO.			Metals.		
Gas in.....	22	A xv	Ontario, names and occurrences.	190-193	ii
boring for.....	115, 116	A xiv	and their ores.		
	112	A xv	Paper on, by Blue.....	171-177	i
depth of wells.....	28	v	Metamorphic rocks.		
Guelph formation.....	26	A xiii	Formation of.....	230	vi
See also Leamington.			Names of various.....	236	vi
Oil in.....	90	A xiv	Metamorphism.		
Mertensia paniculata.			Meaning of: notes on, by Blue..	63	i
Abitibi Lake dist.....	241	A xiv	Metcalf, J. M.	169, 170	C xiv
Mattagami valley.....	150	A xv	Metcalfe tp., MIDDLESEX CO.		
Merula migratoria. See Robin, American			Bore-hole record in.....	80	B xiii
Mesabi dist., MINN.			Metchkewedenong, MANITOULIN ISLAND, ALG.		
See also Mesabi iron range.			Nomenclature of.....	79	B xiii
Geological nomenclature of....	271	A xiv	"Meteor" s.s.	173	xii
Mining laws in.....	13	i		37	A xv
iron range, MINN.			Meteor lake, HEADWATERS WANAPITEI RIVER, NIP.		
Compared with Michipicoten range.....	197, 199	x	Altitude of.....	104	C xiv
Continuation of, in Ont.....	65, 69	ii	Country N. of, character.....	181	x
	24	xi	S.W. of, worth prospecting.....	17	xi
notes by McInnes.....	309, 310	xii	Esker near.....	210	x
Exhaustion of, possible.....	8	A xiii	Gold (alluvial) on, report by Coleman.....	156-159	x
Hematite of.....	53	ii	Gravel near.....	182, 210	x
Jasper of.....	92	v	Iron ore near.....	18, 210	x
Notes on, by Coleman.....	153, 154	ix	Terraces on.....	106	C xiv
Smith.....	77	ii	altitude.....	211	x
	258	A xiv		104	C xiv
Ore from, analysis.....	101	ix	Meteoric iron. See Siderite.		
quality.....	21	xii	Meteorites.		
Origin of iron in.....	166	A xv	Nickel in, suggests nickel steel..	173	C xiv
Production of, 1892-3.....	146	iii	Notes on some, in Ontario.....	203	ix
Royalties from.....	226	ii	Meteorological observations.		
series.			Abitibi dist.....	129, 130	A xiii
Extension of, east of Port Arthur.	254	A xiv		237-239	A xiv
	156	A xv		147-149	A xv
Meshed=Ali (OR NEJEF), VILYET OF BAGDAD, ASIATIC TURKEY.	166	i	Guelph.....	149	xi
-Hosseini. See Kerbela.				129, 130	A xiii
Mesolite.				239	A xiv
Mamainse pt.....	203	ix	James bay.....	106, 107	iv
Mesomekenda lake, S. W. of MATTAGAMI LAKE, ALG.	130	ix	Mattagami valley.....	147-149	A xv
Mesozoic.			Methuen Mining Co.		
Definition of.....	537	R C	Capital and date of charter.....	11	vii
Messagamashen lake, HARDY TP., P.S.D.			tp., PETERBOROUGH CO.		
Copper and nickel ores on.....	262	viii	Barytes in.....	213	viii
	171	ix		195	ix
Messagamashine copper mine. See Parry Sound Copper Mg. Co.			Celestite in.....	222	vi
Mesumekenda lake, ALG.			Corundum in.....	217	vi
Forest fires around.....	141	ix		208, 214, 218	vii
Metagama, ALG.				204	viii
Country west of, description....	121	A xiii		204, 205	xi
Iron ore near.....	185	ix	discovery.....	245	viii
Metalliferous veins.			exhibited at Pan - American Exhibition.....	87	xi
Origin of.....	171, 172	i	notes.....	63	vi
Metallurgical industries.			by Miller.....	227, 228	vii
Mechanical instruction in, need of.....	415	R C		206-214	viii
Metallurgy.			Geology of, notes by Miller..	194, 195	xi
Methods of, at Copper Cliff, paper by McArthur.....	299-303	xii	Mica in.....	203	ix
Of nickel, paper by Levat... ..	149-162	ii		208	xi
			mining.....	245	viii
			muscovite.....	205	ix
				91	A xiii
				84	A xiv

	Page.	Vol.
Methuen tp.—<i>Con.</i>		
Old name of.....	15	ii
Potsdam formation in.....	209, 210	viii
Syenite in	230	vii
nepheline, notes by Coleman .	252	viii
Methylic acid.		
As a by-product of charcoal burning	481	R C
Metis, RIMOUSKI CO., QUE.		
Marine deposits at	216	x
Mexico.		
Asphalt in, analysis.....	166	vi
Cobalt ores in	71 B	xiv
Mispickel ores in.....	102	xi
Nickel coinage in	161	ii
Meyer, Charles L.	117, 128, 129	x
Leopold.	32	viii
	117, 128, 129	x
Victor		
Experiments by, on nickel ore, ref. to.....	107	viii
Meyers cave. See Myers Cave.		
lake, S. SHERBROOKE TP., See Christie lake.		
M H 208-210 gold locs. See Wen- digo mine.		
230 gold loc. See Gold Pan- ner mine.		
246 gold loc., EAGLE LAKE, R. R. D.....	93	xii
257 gold loc. See Eldorado mine, R.R.d.		
Miami river, OHIO.		
Cincinnati group on.....	116	i
Miaskite.		
Ilmen mts., Russia.....	213	vii
Mica.		
Association of, with apatite.....	442	R C
corundum .	244	vii
	206, 211	viii
	205	xi
photo. 216, 217		viii
Canada, production, 1870, 1880, 1887.....	209	R C
1886.....	243	R C
1888	525	R C
Canadian, competing with E. Indian	28	xi
	23	xvi
Description of.....	538	R C
East India, production and value.	28	xi
Evidence <i>re</i> before R. C....	148-151	R C
Exhibit of, at World's Fair.....	189	ii
Industry of, 1906.....	22, 23 A	xvi
Mining of, report for:—		
1881	244, 245	i
1892.....	249, 250	ii
1893.....	192-196	iii
1895.....	276-280	v
1896.....	278	vi
1897.....	98	vii
1900.....	131-135	x
1901.....	286-292	xi
1902.....	125-132	xii
1903.....	90-92 A	xiii
1904.....	83-86 A	xiv
1905.....	102-106 A	xv
1906.....	86-91 A	xvi

	Page.	Vol.
Mica.—<i>Con.</i>		
Mistaken for gold	452	R C
	9 Bull.	iii
Notes by Goodwin, on various forms of	226	iv
Occurrences.....	203, 205, 207	ix
Prices and commercial sizes....	86 A	xvi
Production, 1880....	210	R C
1888.....	72	R C
1891.....	6	i
1892.....	8, 11	ii
1893.....	8, 10	iii
1895.....	11	v
1897.....	23	vii
1898.....	11	viii
1899.....	13	ix
1900.....	11, 12, 25	x
1901.....	13, 27	xi
1902.....	12, 13, 27	xii
1903.....	3, 12-13 A	xiii
1904.....	1, 3, 20, 83 A	xiv
1905.....	1, 4, 21 A	xv
1906.....	4, 6 A	xvi
Tete Jaune Cache, B.C., beryls in	237	vii
United States:—		
New Hampshire, intruded by batholithic gneiss	159	vii
production, 1888	525	R C
Uses of.....	14	ix
Villeneuve mine, Que.	68	R C
quality	150	R C
<hr/>		
Abinger tp.	220	v
Mazinawe lake.	205	xi
Addington co.	149	R C
Bedford tp	18	viii
Butt tp.	172	ix
Calvin tp., Nip.	205	ix
Cariboo lake, P.S.D.	171	ix
Dungannon tp.	205	ix
Hungerford tp.	149	R C
	203	ix
L. of the Woods	64	R C
	205	ix
Loughborough tp.	170, 171	R C
	98	vii
	203	ix
Notes by Lacey and Merritt. 148, 149		R C
Matawatchan	205	ix
Methuen tp.	205	ix
North Burgess tp. (phlogopite), analysis	207	ix
Perth dist.	53	R C
Perth mine, notes by Merritt.	148	R C
Pringle tp.	171	ix
Proudfoot tps.	171	ix
Renfrew co.:—		
associated with apatite	438	R C
beryl	235	vii
Robert bay, Muskoka dist.	81 B	xiii
Mica and Mining Co.		
Capital and date of charter.....	11	vii
bay, L. SUPERIOR.		
Copper mining on, history of early.....	171-175	ii

	Page.	Vol.		Page.	Vol.
Mica Boiler and Pipe Covering Co.			Michie, E. L.		
Exhibit of, at Pan-American Exhibition	88, 89	xi	Pyrites mining by	20, 61	A xv
Minor ref. to	24	vii	See also Michie pyrites mine.		
Scrap mica worked by	34	vi	Northern Ontario pyrites mine.		
Works of, notes on	31	v	H. S.	125	ix
removed to Montreal.	25	x	pyrites mine, BIG VERMILION LAKE, R. R. D.		
Manufacturing Co.			Notes on, by Fraleck; photo of ore	176, 177	A xvi
Martha mica mine owned by	132	x	Michigamme, MARQUETTE CO., MICH.		
	290	xi	Wenstrom concentrator used at ..	328	xii
	128	xii	Michigan, U. S.		
	104	A xv	Brick pavements in cities of	108	iii
Ottawa works of, closed	131	xii	Charcoal in, cost of	341	R C
Pike Lake mine owned by	132	x	Copper in, notes by Coleman. 144, 145		ix
Work by, 1901	292	xi	production, 1879	371	R C
schist.			Geological Survey of, notes by Walker	421	R C
Definition of	538	R C	Gypsum deposits in	119	R C
	236	vi	Iron in, boring for, cost of	175	iv
French River dist.	67, 68	i		231, 232	v
Wabigoon Lake dist.	183	vii	exhaustion possible.	8	A xiii
trimming works.			mining, notes by Coleman	150-152	ix
Ganonoque, notes, 1901	292	xi	production, 1884-87. 227, 468		R C
work suspended	132	xii	1892-3	146	iii
List of, 1906	90, 91	A xvi	cost of	10	i
Notes on, 1900	135	x	compared to Ont.	103	ii
1901	291	xi	royalty statistics, 1879 ..	12	i
1902	131	xii	smelting, records of furnaces, 1881	338, 339	R C
1903	92	A xiii	See also Penokee-Gogebic range.		
1904	86	A xiv	Limestone from, analysis	13	B xiii
1905	105, 106	A xv	Mining laws of	13	i
syenite.			notes by R. C.	281	R C
Coe Hill (near)	214	viii	school of	426, 507, 508	R C
Micanite.			See also Houghton.		
Composition and uses of	12	A xiii	Moraine in, diamonds in	123, 124	ix
Manufacture of	90	A xvi	Oil in, flash test of	164	R C
Micaville (LATE STANLEYVILLE), N. BURGESS TP., LANARK CO.			Rocks in, Animikie	33	R C
Mica mining near. See Pike lake.			Huronian	8	R C
Michael, Ada L.	74	xi		246	v
G. L.	104	vii	Portage and Chemung.	47	R C
	74	xi	Salt production of	228	R C
Michelinia clappi.			and Ontario Oil Co.		
Cayuga, N. tp	146	xii	Capital and date of charter	26	A xv
Hagersville	145	xii	Lake Superior Power Co.		
Villanova	143	xii	Constructing canal at Sault Ste. Marie ..	92	xi
" <i>convexa.</i>			=Ohio Gold Mg. Co.		
Abitibi river	187, 188	viii	Capital and date of charter	11	xi
Anderdon tp	125	xi	University.		
Cayuga, N. tp	146	xii	Notes on, by Richards	511	R C
Hagersville	145	xii	Michilimackinac. See Mackinac.		
Villanova	143	xii	Michipicoten. See Michipicoten		
Port Colborne (near)	35	xi	River.		
Michell, David.	136	i	Development Co.	143	x
H. C.				74	xi
Inventor of mica boiler-covering.	31	v		66	xii
Michi lake, MICHIPICOTEN DIV.			falls, MICHIPICOTEN RIVER.		
Dimensions of	287	A xiv	Biotite-peridotite from	214	A xiii
Fish absent in	297	A xiv	Waterpower of	72	xi
Minor ref. to	292	A xiv		222	A xiii
Schists and granite on	349	A xiv	harbour, L. SUPERIOR.		
=Biju lake, N. OF L. SUPERIOR, TH. B. D.			Beaches on	154	viii
Dimensions of	287	A xiv		194	A xv
Minor refs. to	279, 285	A xiv	Clay near, stratified	184	xi
Rocks on and near	348, 349, 354	A xiv	altitude	211	x
agglomerate	342	A xiv			
Route to, by canoe	291, 292	A xiv			
from Iron lake	291	A xiv			
Trees on	296	A xiv			

	Page.	Vol.
Michipicoten harbour.—<i>Con.</i>		
Copper on.....	209	v
chalcopyrite.....	206	vii
Country behind, description....	153	xi
Dock at, owned by Algoma Central R'y Co.....	127	x
photos.....	102, 103, 192, 193	x
.....	287	A xiv
Iron ores on, notes by Coleman..	191	x
Photos of.....	64, 65	x
.....	171	A xvi
Roches moutonnees on, photo.		
.....	177, 193	A xv
Rocks on and near.....	201	x
.....	162-164	xi
cherts, ferruginous.....	317	A xiv
Doré conglomerate, photo.	341	A xiv
greenstone.....	177, 178	xi
schist conglomerate, photo.		
.....	160, 161	xi
trap, ellipsoidal, photo.	160, 161	xi
Route from, to Frances mine,		
description.....	289	A xiv
Shores south of, description. 130-132		viii
Iron ranges, MICHIPICOTEN		
div.		
Compared to those of Nipigon		
Lake dist. 114		A xvi
S. of L. Superior. 195-199		x
Geological notes, by Coleman. 182, 183		ix
Keewatin formation in	30	B xiv
Maps of.....	291	viii
.....	159	ix
With vol. xi		
“ xiv		
“ xv		
Mapped by L. Superior Power		
Co.....	94	xi
Reports on, by:—		
Bell, J. M.....	278-355	A xiv
Coleman.....	154-164	ix
and Moore.....	173-206	A xv
Willmott... 255-258		viii
.....	152-185	xi
Siderites of.....	196, 197	x
island, L. SUPERIOR.		
Agate from.....	192	ix
exhibited at World's Fair. 190		ii
Analcite in.....	193	ix
Barytes on.....	250	iv
Cedar on.....	61	R C
Chlorastrolite on.....	196	ix
Cobalt minerals on.....	51	B xiv
Copper on.....	36, 39	R C
.....	123	iv
.....	208	v
chalcocite.....	196	ix
domeykite.....	194	ii
.....	198	ix
mining.....	60, 61, 97, 98, 103	R C
1891.....	234	i
1894, idle.....	239	iv
1898.....	19	viii
notes and section.....	103	R C
sulphurets met with....	67	R C
mode of occurrence.....	175	i
native	205	vii
Fishing village on, photo.....	282	A xiv

Michipicoten island.—*Con.*

	Page.	Vol.
Geology of.....	38, 39	R C
Gold on.....	25	R C
legend re.....	112	v
Iron ore on.....	36	R C
Nickel in.....	176	i
.....	58, 59	B xiv
genthite....	193, 194	ii
.....	150	C xiv
niccolite.....	194	ii
notes on alloys of. 443, 444		R C
Notes on, by Coleman.....	143, 144	viii
Pitchstone on.....	194	ii
.....	145	ix
Rocks on, Keweenawan.....	36, 67	R C
.....	9 Bull.	iii
.....	69	iii
.....	204	vii
notes by Coleman. 171		viii
trap	15	v
Silver-bearing minerals on.....	103	A xiii
Mining div.		
Area and boundaries.....	3 Bull.	iii
and establishment.....	3	vii
Glacial striae in, direction.. 178, 179		ix
Gold and iron mining in.... 102-104		xii
<i>See also</i> Michipicoten Iron		
range.		
assessment work only, 1906....	68	A xvi
notes by Boyd, 1904.....	35	A xiv
Willmott.....	95	xi
report by Boyd.....	70-75	xi
.....	62-67	xii
.....	46-49	A xiii
Miller... 78, 80, 102-104		xii
Maps of.....	With vol. vii	
.....	106, 188, 189	vii
.....	126, 127, 291	viii
.....	159	ix
With vol. xi		
“ xiv		
“ xv		
Notes, by Coleman.....	221, 222	A xiii
Prehnite in, with copper.....	207	ix
Reports on, 1897, Boyd.....	100-106	vii
Willmott.....	Bull.	iii
.....	184-206	vii
1898, Boyd.....	100-112	viii
Coleman... 135-148		viii
1899, Boyd.....	112-118	ix
1900, Boyd.....	137-144	x
1904, J. M. Bell. 278-355		A xiv
Revenue from, for licences:—		
1896-7	14	vii
1898.....	10	viii
1899.....	11	ix
1900.....	10	x
1901.....	12	xi
Serious set back to.....	xi	A xiii
Tin salting in, 1872, history. 138, 139		viii
Native Copper Co.....	60	R C
River, MICHIPICOTEN BAY, L.		
SUPERIOR.		
Beaches near.....	154	viii
altitude.....	155	viii
.....	211	x
Copper and iron near, prospecting		
for, 1865.....	254	v

	Page.	Vol.
Michipicoten river.—Con.		
Description and geology of vicinity.....	201, 202 147, 148	vii viii
Gold mining near. <i>See</i> Manxman g. m.		
H. B. C. post at.....	13 Bull.	iii
abandoned....	101, 185	vii
decline of.....	241	v
Magnetic variation at.....	186	vii
Mining office at.....	137	x
Niccolite at.....	205	ix
Photos of.....	204, 205	vii
Potatoes grown at.....	13 Bull.	iii
Progress of, 1899.....	194	v
Rocks at and near.....	204	vii
Huronian.....	18	R C
.....	124	iv
Route from, to Grasset, description.....	199-201	vii
Missinaibi, description.....	193-197	vii
Sandy plain near.....	201 A	xv
river, L. SUPERIOR.		
Concentric walls on, notes by Agassiz.....	201	vii
Fall of.....	188	vii
Glaciation on.....	7 Bull.	iii
.....	204	vii
beaches, photo.....	196 A	xv
morainic ridges.....	192 A	xv
Pleistocene deposits.....	184	xi
peaty, photo.....	197 A	xv
H. B. C. post on. <i>See</i> Michipicoten River.		
Headwaters of.....	187	vii
Indian settlement on.....	101	vii
Minor ref. to.....	202	v
Notes on, by Coleman.....	176, 177 A	xv
Willmott.....	188-192	vii
Photos of.....	140, 141, 156, 157	vii
Pine on.....	200 A	xv
Portages on.....	185	vii
length of.....	5 Bull.	iii
Rapid on, photo of running a....	176 A	xv
Rocks on and near.....	158, 167	xi
eruptives, notes by Coleman.		
.....	190, 191 A	xv
feldspar-porphry, photo.	160, 161	xi
granite-porphry, petrography.	176	xi
Huronian.....	65	R C
petrography.....	175-177 A	xv
schist-conglomerate.....	146	viii
Waterpower on.....	13 Bull.	iii
.....	206, 252	vii
.....	222 A	xiii
.....	67 A	xv
.....	68 A	xvi
photo.....	168 A	xvi
schists.		
Notes on, by J. M. Bell.....	299-307 A	xiv
Moore.....	202, 203 A	xv
Copper Co.		
Capital and date of charter.....	10	vii
Mickie, Vick	96	vii

	Page.	Vol.
Mickle, G. R.		
Analysis by, of:—		
blueite, Sudbury dist.....	282	xii
anthraxolite, Balfour tp.....	194	ix
Kingston (near).	163	vi
mispickel, Graham tp.....	205	ix
Description by, of pyrite crystal from Worthington m.....	280	xii
Extract from letter to, <i>re</i> origin of Sudbury ores.....	278	xii
Hardness of anthraxolite determined by.....	160	vi
McConnell nickel mine examined by.....	161 c	xiv
Notes by, on blueite.....	160 c	xiv
Pyrrhotite crystal obtained by, Sudbury dist.....	158 c	xiv
Tin collected by, L. Wanapitei..	211	ix
Translation by, of early history of cobalt in Saxony.....	74-90 B	xiv
ref. to.....	7 B	xiv
Microline.		
Bedford tp.....	37	xii
Exhibited at World's Fair.	188	ii
Hardness and specific gravity... .	202	vi
Often really orthoclase.....	203	ix
Pikes Peak, Col.....	225	vi
Micropegmatite.		
Sudbury dist.....	48, 107, 124 c	xiv
Bowell tp.....	115 c	xiv
Levack tp.....	84	i
McKim tp.....	114 c	xiv
Morgan tp.....	110 c	xiv
Norman tp.....	73 c	xiv
Microperthite.		
Mistaken for orthoclase.....	205	ix
Microphotos.		
Anorthosite, Sherbrooke tp..	216, 217	viii
Feldspar-porphry, near mouth of Michipicoten river....	160, 161	xi
Gneiss, Redgut bay.....	79	iv
Granite, Pickerel lake.....	89	iv
Swell bay, Rainy lake..	93	iv
Huronite, Huron bay, L. Superior.	187	ix
Nickel-granite.....	113	viii
Norite, Parham.....	216, 217	viii
Quartz-porphry, Manitou Lake dist.....	84	iv
Middaugh, Walter	228, 229	i
Middle falls, MATTAWAN RIVER.	68	ii
island, L. OF THE WOODS, R.		
R. D.		
Carbonaceous shale near.....	104	vi
Gold mining on.....	235	ii
Minor ref. to.....	181	v
island, L. HURON	42 B	xiii
road, E. TILBURY TP., ESSEX CO.		
Gas and oil on.....	97-99 A	xvi
Middleburg dist., TRANSVAAL.		
Cobalt in.....	70 B	xiv
Middlemiss, C. S.	233	viii
Middlesborough, YORKSHIRE, ENG.		
Steel making at.....	362	R C
Middlesex co.		
Brick-yards of, notes on.....	79-81 B	xv
Hamilton formation in.....	25 B	xiii
Limestone in, notes by Miller...	80 B	xiii
Peat bogs in.....	28 A	xiii

	Page.	Vol.
Middlesex co.—Con.		
Salt works in, number of 1897..	24	vii
1898..	17	viii
Middleton, —?		
Quarry of, Ancaster.....	141	xii
	125	B xiii
Middleton, ESSEX CO.		
Corniferous formation at.....	118	B xiii
Middleton, NEAR JACKFISH BAY, L. SUPERIOR.		
Gold mining near, notes, 1898...	82	vii
1900...	87	x
bridge, GRAND RIVER.		
Guelph formation near.....	33, 115	B xiii
tp., NORFOLK CO.		
Limonite in.....	201	ix
	88	B xiii
Midland, TAY TP., SIMCOE CO.		
Artesian wells in.....	58	i
Brick-yard at, notes on.....	100	B xv
Canada Iron Furnace Co's property at, plan of.....	16	ix
Photo of iron ore being discharged at.....	16, 17	x
Smelter at.....	10	A xiii
	16	A xv
	17	A xvi
blown in.....	25	xii
description.....	102	ix
	27-30	x
extension.....	22	xii
notes, 1900.....	16, 17	ix
operating, 1901.....	25	xi
photos.....	16	ix
	16, 160, 161	x
suggested.....	6	viii
Miers, Prof. Henry A.	144	vii
Mieville, John F.		
Combined gold mine reported on by.....	73	x
Manager, Bath Island g. m.....	60	viii
Deccag. m.....	94	x
Regina g. m.....	56	viii
	44	ix
	90	x
Migiskan river, MATTAGAMI LAKE, QUE.		
Timber in valley of.....	204	v
Mijinemungshing lake, MICHIPICOTEN DIV.		
Iron formation near.....	179	A xv
Morainic deposits near.....	192	A xv
Rocks on.....	191	A xv
monzonite.....	179, 191	A xv
"Mikado" s. s.	53	vii
gold mine, SHOAL LAKE, L. OF THE WOODS.		
Accidents at.....	24	viii
	31, 32	ix
	44	x
Battery statistics at.....	22	viii
Bismuthinite in.....	195	ix
Depth of, 1900.....	35	ix
Exhibit of, at Pan-American Exhibition.....	85	xi
Granite and diabase in.....	116	vi
	14	xii
Mining class at, 1898.....	280	viii
1901.....	65, 66	xi
1902.....	59	xii

	Page.	Vol.
Mikado gold mine.—Con.		
Minor ref. to.....	14	xii
Notes on, by Coleman.....	105, 256	vi
Engledue.....	256	vi
1896.....	7 Bull.	i
	47, 48, 105-107	vi
1897 ...	28, 29, 51-53, 120	vii
	276	viii
1898.....	44, 66, 67	viii
1899.....	52-56	ix
1900.....	76, 77, 92, 93	x
1901.....	81, 252, 253	xi
1902.....	95	xii
Photo of.....	16, 17	vii
	48, 49	ix
	80, 81	x
Plan of.....	64, 65	viii
Section of.....	53	ix
Shut down, 1903.....	58, 60	A xiii
Sulphides of.....	113	vi
Veins of, character.....	118	vi
	57	viii
Work by, 1896.....	258	vi
Gold Mg. Co.		
Capital and date of charter.....	11	vii
	38	A xiii
Formation of.....	256	vi
Peninsula Gold Mg. and Development Co.		
Capital and date of charter.....	10	ix
Reef gold mine, SHOAL LAKE, L. OF THE WOODS, R. R. D.		
Notes on, 1901.....	253	xi
1902.....	94	xii
1903.....	63	A xiii
Milburn, Thomas	60	ix
Miles, C. F.		
Iron discovered by, L. of the Woods.....	64	R C
D. P.	104	vii
bay, L. OF THE WOODS.	118	vii
Milford, NEAR CINCINNATI, U. S.		
Diamonds from.....	121	ix
Mill. See Stamp mill.		
lake, McDougall tp., P. S. D.		
Limestone on.....	94, 95	B xiii
	169	ix
tests. See Stamp mill tests.		
Millar, Rev. Ferguson	45	A xv
J. W.	65	viii
James	205	i
Millbridge, TUDOR TP., HASTINGS CO.		
Lead and zinc mining near. See Katherine lead mine.		
Pyrrotite in.....	200	A xvi
Rocks in vicinity of.....	198, 199	xi
Mille Isles seig., TERREBONNE CO., QUE.		
Peat in.....	198	ii
Roches, CORNWALL TP., STORMONT CO.		
Chazy limestone opposite.....	47	B xiii
character of.....	110	B xiii
quarries.....	48	B xiii
Miller, Charles	97	vii
	25	ix
F. H.	48	A xiii
F. S.	234, 236	iv
	264	v

	Page.	Vol.		Page.	Vol.
Miller, Frederick			Miller, Prof. Willet G.—Con.		
Evidence by, before Roy. Com.			Notes by, on.— <i>Con.</i>		
<i>re</i> :—			Saugeen clay.....	19 B	xv
general topics.....	65	R C	Tip-top copper mine.....	173 A	xvi
German mining laws.....	318	R C	Papers by, on :—		
iron smelting, cost of.....	396	R C	Grenville-Hastings unconform-		
Pine Portage specimen.....	119	R C	ity (and Knight).....	221, 222 A	xvi
G. L.	48 A	xiii	Minerals.....	200-205	vi
George			of Ontario.....	191-212	ix
Miller island, L. of the Woods,			Pre-Cambrian nomenclature.		
named after.....	171	v	269-277 A	xiv	
Gerrit S.	111, 112	vi	Rocks and Rock structures. 229-236		vi
I. M.	48 A	xiii	Preface by, to Baker's report		
J. B.			on clay.....	1, 2 B	xv
Analysis made for, of limestone..	92 B	xiii	Refs. to surveys by, in :—		
Govt. drill hired to.....	44, 45 A	xiii	Cobalt dist.....	2 A	xiii
Iron developing by, near Sault			5 A	xiv	
Ste. Marie.....	187-190	x	7 A	xvi	
Licence to.....	104	vii	Corundum dists.....	64-66	vi
J. V.			Frontenac co.....	298	xii
Prospecting by, Sudbury dist....	49	xii	Hastings dist.....	213	xi
214 A	xiii		Timagami dist.....	8 A	xvi
15, 111 C	xiv		Reports by, in :—		
James			1895. First class field-geology,		
Evidence by, before R. C. <i>re</i> :—			School of Mines, Kings-		
copper, Drury tp.....	106	R C	ton.....	218-220	v
mining laws.....	308	R C	1896. Preliminary report on		
silver, Sault Ste. Marie.....	203	R C	corundum of East On-		
James (H.B.C.)			tario.....	64-66	vi
Acknowledgments to.....	142	ix	1897. Geological branch of		
182	x		School of Mines, Kings-		
116, 184 A	xiv		ton.....	261, 262	vii
29 A	xv		Economic geology of		
Statement by, <i>re</i> fur-trade at Fort			Eastern Ont., specially		
Mattagami.....	131, 151 A	xv	corundum.....	207-238	vii
Vegetables grown by, at Fort			1898. Economic geology of		
Mattagami.....	240 A	xiv	Eastern Ont., specially		
John	187	vii	corundum.....	205-240	viii
L. B.	104	viii	refs. to.....	245	viii
O. T.	66	xii	19	ix	
R. E.	206	iv	1899. Minerals of Ontario,		
R. J.	117	ix	with notes.....	192-212	ix
143	x		1900. Iron ores of Nipissing		
66	xii		dist.....	160-180	x
48 A	xiii		ref. to.....	181 A	xvi
Prof. Willet G.			1901. Mines of N.W. Ontario.		
Accident at Radnor mine invest-			73-107	xi	
igated by.....	47	xii	Eastern Ontario gold		
Acknowledgments to.....	189	xii	belt.....	186-207	xi
Appointment of, as Provincial			Country N. of L. Timis-		
Geologist.....	6	xi	kaming.....	214-220	xi
Cobalt, Ont., named by.....	40 A	xiv	1902. Iron ranges N. of On-		
10 B	xiv		tario.....	304-317	xii
Larder Lake mineral possibilities			1903. Mines of E. Ontario... 88-95 A	xiii	
pointed out by.....	203 A	xvi	Silver deposits of Cobalt		
Mining classes conducted by,			dist.....	96-103 A	xiii
1896.....	197	vi	Limestones of Ontario..	Pt. B	xiii
Notes by, on :—			1904. Silver deposits of Cobalt		
Cobalt conglomerate.....	212 A	xvi	dist.....	Pt. B	xiv
Glendower iron mine.....	227	v	Iron range of Boston tp.		
Golden Fleece gold mine.....	76 A	xvi	261-267 A	xiv	
iron ore N.E. of Wanapitei			1906. Lake Abitibi gold de-		
lake.....	201	x	posits.....	219, 220 A	xvi
Moose Mt. iron deposits.....	73 A	xvi	1907. 2nd Edition, Silver de-		
oil, Raleigh tp.....	40-42	xii	posits of Cobalt.....	Pt. B	xvi
extract.....	111 A	xiv	3rd Edition, Silver de-		
pyrites near Plevna.....	164 A	xvi	posits of Cobalt dist..	Pt. B	xvi
Radnor iron mine.....	259	xi			

	Page.	Vol.
Miller, Prof. Willet G.—Con.		
Services of, obtainable as mining expert	6	xii
	xii A	xiii
Work by, 1900	6	x
1901	7	xi
1902	4	xii
1903	x, xi A	xiii
1904	xvi A	xiv
1905	156 A	xv
1906	2, 9, 14 A	xvi
W. J.	40	iii
Walter	65, 156	v
Metcalf, Parkins & Co.		
Wages paid by, statistics	370	R C
corundum mine, METHUEN TP., PETERBOROUGH CO.		
Notes on, by Miller	228	vii
Rocks of	208, 209	viii
gneiss, analysis	227	vii
iron mine, MADOC TP., HASTINGS CO.		
Notes on, 1898	32	viii
island, L. OF THE WOODS.		
Historical notes on	170, 171	v
lake, NEAR MANITOUWICK LAKE, ALG.		
Nomenclature of	197	vii
tp., FRONTENAC CO.		
Granite in	203	xi
Marble in	80	R C
Mica in	150	R C
	244	i
	203	ix
mining	289	xi
muscovite	205	ix
Molybdenite in	205	ix
Millerite (NICKEL-SULPHIDE).		
Cobalt dist.	xi A	xiii
	12, 13 B	xiv
Brompton lake, Que.	59 B	xiv
Composition of	168, 170	ii
Hardness of	202	vi
Joachimsthal, Bohemia	61 B	xiv
New Caledonia	150 C	xiv
Notes by Goodwin	213	vi
Specific gravity of	202	vi
Sudbury dist.	192	ii
	203	ix
	159 C	xiv
Copper Cliff mine	281	xii
	59 B	xiv
Milligan, George E.	43	iii
Millikin, W. H.	104	viii
Milling of gold ores.		
Notes on, by Hardman	237-243	vi
Mills, George		
Brick-making by, Hamilton	106 B	xv
Mills, J. G.		
Zinc mining by, near Chelmsford.	33	viii
James W.	124	vii
Samuel Dillon		
Notes by, on :—		
iron ores, St. Ignace, Mich. .	98-105	ii
molybdenite, Haliburton dist.	45, 46	xi
and Cunningham.		
Feldspar mining by, Oso tp.	83 A	xiv
Mica mining by, S. Sherbrooke tp.	86 A	xiv

	Page.	Vol.
Mills tp., P. S. D.		
Copper and limestone in	170	ix
Millstone grit.		
Definition of	538	R C
Millvale steel mill, PITTSBURG		
Labour employed at, statistics ..	370	R C
Millward, George	242	i
Milne, Alexander	77	x
	59	xii
J. J.		
Notes by, on horse-power at		
Beaverton peat works	224	xii
Peat machine of, notes	32, 33 A	xiii
photo	48, 49 A	xiii
John (Essex)	56	i
John		
Interested in Hamilton Iron & Steel Co.	29	iv
	46	v
	97	vii
Milton, J. Muter	142 A	xiv
Milton, ESQUESING TP., HALTON CO.		
Brick clay at and near	73, 229	R C
evidence before R. C.	85	R C
notes by Bell	78	R C
quarries, photo	7, 9 B	xv
works	102, 103	i
photo	69 B	xv
terra-cotta	101	i
notes	120 B	xv
Lime made at, analysis	15 A	xiii
Medina shale at	29	xii
analysis	8 B	xv
for bricks	128	iii
Springs in	55	i
Pressed Brick Co.		
Exhibit of, at Pan-American Exhibition ..	84, 90	xi
Govt. drill lent to	59, 60	xi
Notes on	102, 103	i
Plant and quarry of, photos ..	7, 68, 69 B	xv
Producing, 1902	29	xii
Terra-cotta made by	120 B	xv
Milwaukee, WISCONSIN, U.S.		
Building-brick of	121	iii
Limestone from, analysis	15, 16 B	xiii
Mimetite.		
Saxony	89 B	xiv
Mimico, ETOBICOKE TP., YORK CO.		
Brick works at, notes and photo.		
	110, 111 B	xv
Clay from, analysis	8 B	xv
Gas near, notes on, 1890	138, 139	i
Hudson River formation at, analysis	128	iii
See also next ref.		
Sewer-pipe works at	29	xii
notes	117 B	xv
photo	118 B	xv
river, YORK CO.		
Hudson River formation on	126 B	xiii
Sewer Pipe and Brick Mfg. Co.		
Bricks of, tests on	130	iii
Shales of, analysis	128	iii
Mimulus ringens.		
Abitibi Lake dist.	241 A	xiv
Mattagami valley	150 A	xiv

	Page.	Vol.
Mina lake, NEAR L. OF THE WOODS, R. R. D. Description of.....	116	vii
Mindemoya lake, MANITOULIN ISLAND, ALG. Clinton and Niagara formations on.....	78 B	xiii
Minden tp., HALIBURTON CO. Grenville series on.....	56 B	xiii
Magnetite in, analysis.....	201, 202	ix
Minderman, F. W. E.	340	xii
Mine Centre, SHOAL LAKE, SEINE RIVER. Country between, and Savant, notes by Blue.....	125-154	v
Country between, and Fort Frances, notes by Blue...	160, 161	v
Dikes near, notes on.....	279	viii
Geology of vicinity.....	134	xi
Gold mining at and near:— 1896.....	80, 260-263	vi
1897.....	73-75	vii
1898. 45, 76-84, 263-274, 277, 278		viii
1899.....	64-75	ix
1900.....	80-84	x
notes by Blue.....	150-160	v
Mining class at.....	6, 216	v
	198	vi
Notes on and vicinity.....	155	v
Road from, northwards.....	34	vii
	49	viii
Sand hills near.....	146	xi
La Motte, Miss. Cobalt in lead ores at.....	71 B	xiv
Nickel in.....	131	ii
lead ores of.....	146	C xiv
refinery.....	103	A xiii
Mineral(s). Apatite districts, list of.....	442	R C
Archaean rocks, list of.....	169	i
Definition of.....	200	vi
	538	R C
Description, by Goodwin, of some of the principal.....	206	vi
Determination of.....	203-205	vi
extracts from Copp's Manual. 447-464		R C
Development of, measures for aiding.....	407-429	R C
For Summer Mining Schools, regulations <i>re</i> collections...	199-200	vi
Formulae for various.....	200-203	vi
Hardness of scale.....	448, 535	R C
	200-203	vi
Laurentian system.....	249	v
list of.....	11	R C
Ontario, paper by.....	165-175	i
Miller....	192-212	ix
Railways dependent on, for freight.....	410	R C
Royalties on. <i>See</i> Royalties.		
Specific gravity of.....	200-203	vi
Utility of collecting.....	522	R C
Mineral collections. Advisability of supplying, to local institutes.....	412, 413	R C
Exploration and Develop- ment Co. Capital and date of charter.....	11	vii

Mineral exports.

Canada, 1874-86.....	238	R C
Ontario, 1874 and 1886.....	238	R C

King Mg. and Development Co.

Capital and date of charter.....	11	vii
----------------------------------	----	-----

lands. *See* Mining lands.**oil.** *See* Oil.**pigments.***See also* Ochre.

Canada, production, 1886-87.....	243	R C
1888.....	525	R C

Distribution of, notes by Blue...	177	i
-----------------------------------	-----	---

Charleston lake, iron ore.....	140	R C
--------------------------------	-----	-----

Hints on, to prospectors.....	462	R C
-------------------------------	-----	-----

L. of the Woods.....	64	R C
----------------------	----	-----

pitch. *See* Asphaltum.**point, L. SUPERIOR.**

Minor ref. to.....	69	iii
--------------------	----	-----

Strontium at.....	75	iii
-------------------	----	-----

Trap north of.....	72	iii
--------------------	----	-----

production.

Canada, 1870, 1880.....	209	R C
1874-1886.....	214	R C

1887.....	209, 243	R C
-----------	----------	-----

compared with U.S.

212, 213	R C
----------	-----

Ontario, 1870, 1880, 1887.....	210	R C
--------------------------------	-----	-----

1874-1886.....	214	R C
----------------	-----	-----

1888.....	72	R C
-----------	----	-----

1891.....	5, 6	i
-----------	------	---

1892.....	5-12	ii
-----------	------	----

1893.....	6-10	iii
-----------	------	-----

compared with 1903..	3	A xiii
----------------------	---	--------

1894.....	11	iv
-----------	----	----

1895.....	11	v
-----------	----	---

1896.....	13	vi
-----------	----	----

1897-8.....	15	A vii
-------------	----	-------

	v, vi	B vii
--	-------	-------

	iii	C vii
--	-----	-------

1899.....	13	ix
-----------	----	----

1900.....	7, 11, 12	x
-----------	-----------	---

1900-1.....	8, 9, 12, 13	xi
-------------	--------------	----

1902.....	12, 13	xii
-----------	--------	-----

1903.....	2, 4	A xiii
-----------	------	--------

1904.....	1-3	A xiv
-----------	-----	-------

1905.....	1-4	A xv
-----------	-----	------

1906.....	3-6	A xvi
-----------	-----	-------

Products Co.

Bounty payments to, 1900.....	32	x
-------------------------------	----	---

Range Iron Mining Co.

Capital and date of charter.....	9	xii
----------------------------------	---	-----

Minor ref. to.....	20	xii
--------------------	----	-----

Photos.....	96, 97, 224, 225	A xiii
-------------	------------------	--------

	96	A xv
--	----	------

	81, 83	A xvi
--	--------	-------

Tests, with Wetherill separator, on ores worked by.....	333, 334	xii
--	----------	-----

Work by, 1901.....	260, 261	xi
--------------------	----------	----

1902.....	114	xii
-----------	-----	-----

1903.....	94	A xiii
-----------	----	--------

1904.....	77, 78	A xiv
-----------	--------	-------

1905, notes.....	95-97	A xv
------------------	-------	------

1906.....	16	A xvi
-----------	----	-------

notes.....	56, 82	A xvi
------------	--------	-------

tar. *See* Maltha.

	Page.	Vol.
Mineral veins.		
How formed.....	251-253	v
In Laurentian system, notes by Bell.....	249	v
In schistose rocks, origin and formation of bedded.....	51	iv
water. See Water, mineral		
Mineralogy.		
Method of teaching, by Summer Classes.....	281, 282	viii
Miners.		
Health and safety of.....	306	R C
Schools for, need of.....	416, 417	R C
See also Mining schools.		
bay, GULL LAKE.		
Silver mining on (local tradition). right.	57	B xiii
Provisions of, New South Wales.	290	R C
Minerva gold mine, L. OF THE WOODS, R. R. D.....	64	R C
Minerve Land, U. S.		
Coal on.....	175	A xiii
Mines.		
Development of, measures for aiding.....	407-429	R C
Lighting of.....	199	iv
Picking the eyes of.....	158	vi
Sections of various. See Sections of mines.		
Contract and Investigation Co.		
Capital and date of charter.....	10	ix
Mispickel reported by, near Schreiber.....	106	xi
Work by, 1903.....	61, 62	A xiii
Investment Association.		
Capital and date of charter.....	11	vii
Selection Co.		
Capital and date of charter.....	11	vii
Mineville, ESSEX CO., U. S.		
Wenstrom concentrator employed at.....	328	xii
Mining.		
For annual reports on. See In- spectors of Mines.		
accidents. See Accidents.		
Acts. See Acts of Parliament.		
and Lands Development Co.		
Capital and date of charter.....	30	A xvi
booms.		
Cobalt, Ont.....	10, 48	A xv
	14	A xvi
Harm done by.....	8	B xiv
Influence of, notes by Borron...	258	v
Injured by statistics.....	423	R C
claims.		
Area of.....	257, 258, 274	R C
and condition of holding...	3	vii
Survey of.....	276	R C
cost.....	304, 305	R C
classes. See Summer Mining classes.		
Companies.		
List of, incorporated 1867-1897 ..	7	vii
1898.....	9	viii
1899.....	9	ix
1900.....	9	x
1901.....	11	xi
1902.....	8	xii

Mining Companies.—Con.

List of, incorporated 1903.....	37	A xiii
1904.....	24	A xiv
1905.....	23, 24	A xv
1906.....	27-31	A xvi

**Development and Securities
Co.**

Capital and date of charter.....	28	A xvi
divisions.		
List of, and description.....	36-47	A xvi
engineers.		

As liars.....	168	i
Qualifications for.....	425	R C
industry.		

Influence of commercial condi- tions upon, report by R. C. 205-254		R C
Origin of, in Ontario.....	255	R C
Roads to help, built by Govt...	9	vi
Technical instructions for, need of.....	415	R C
See also Mining schools.		
Statistics of, use of.....	425	R C
lands.		

Development of, measures for aiding.. 407-429		R C
needful, not speculation in. xvi		R C
Germany, ownership of.....	19	i
How acquired and held....	226, 227	ix
Ownership of, in various countries.	15-48	i

Price of.....	7	i
Regulations re, 1846.....	125	vi
Sales and leases of, statistics. 1891. 7, 8		i
1891-1902.....	10	xii
1892.....	7	ii
1893.....	5	iii
1894.....	10	iv
1895.....	9	v
1896.....	10	vi
1897....	14, 15	vii
1898.....	10	viii
1899.....	11	ix
1900.....	10	x
1901.....	12	xi
1902.....	10	xii
1903.....	36	A xiii
1904.....	24	A xiv
1905.....	24	A xv
1906.....	26	A xvi

Lands Agencies.

Kenora, establishment of.....	2, 3	vii
Reports on, 1900.....	145-148	x
1901.....	80-82	xi
1902.....	49	xii
1904.....	34, 35	A xiv

laws.

Australasia.....	286-296	R C
Canada.....	263-277	R C
Ontario.		
changes in, suggested... 301-307		R C
Cobalt camp, effect of.....	6	A xv
compared to B.C.....	4, 5	vii
paper by Blue.....	221-229	ii
	225-229	ix
Europe.....	296-301	R C
Germany.....	318	R C
Great Britain.....	285, 256	R C
Report on, by R. C.....	254-318	R C

	Page.	Vol.		Page.	Vol.
Mining laws.—<i>Con.</i>			Minnesota, U. S.—<i>Con.</i>		
United States	278-285	R C	Iron in, boring for, cost of.....	231	v
Minnesota.....	7, 12	i	exhaustion possible	24	xi
revenue. <i>See</i> Mining lands,			8 A xiii		
sales and leases.			mining, 1892.....	66	ii
roads. <i>See</i> Roads.			notes by Winchell Bros.	53	ii
royalties. <i>See</i> Royalties.			production, 1884-1888	208	R C
schools.			1892-3	146	iii
<i>See also</i> Royal School of Mines.			cost	10	i
School of Practical Science.			range of. <i>See</i> Minnesota-Ver-		
Advisability of, evidence before			million iron range.		
R. C.....	416-429	R C	Laccolithic sills in	256 A	xiv
Europe, report by R. C.....	494-502	R C	Mining laws in.....	7, 12, 13	i
Austria - Hungary.....	513	R C	Oil in, flash test for	164	R C
England.....	417	R C	Railways in, subsidized	241	R C
France	494, 497-502	R C	Syncline of	76	iii
Germany.....	417, 495, 501, 513	R C	bay, IRON LAKE, MICHIPICO-		
Location of, notes on.....	419	R C	TEN DIV.		
New South Wales.....	289	R C	Cherts on.....	319 A	xiv
New Zealand.....	513-521	R C	Iron near	317, 318 A	xiv
221, 222	iv		siderite, analysis	320 A	xiv
Ontario, description.....	193-198	vi	Minor ref. to.....	291 A	xiv
Port Arthur, suggested.....	427	R C	Phyllite near.....	343 A	xiv
recommended by R. C.....	xxiii	R C	copper mine, ONTONAGON REG.,		
report, 1895.....	212-215	v	U.S.....	85	iii
Paper on	212-217	i	Iron Co.		
Report on, by R. C.	492-521	R C	Data by, <i>re</i> cost of drilling	232	v
United States, full notes	502-512	R C	Fault on claim of, near Iron lake.	311 A	xiv
Houghton, Mich.....	426, 512	R C	Operating in Michipicoten div...	95	xi
Rapid City, Dak.....	424, 512	R C	319 A	xiv	
Victoria, Australia	521	R C	Rocks on claim of.....	317, 318 A	xiv
statistics. <i>See</i> Statistics.			Ontario Gold Mine Co.		
Minisegog lake, PARRY SD. DIST.			Capital and date of charter	10	ix
Limestone on.....	94 B	xiii	=Vermilion iron range.		
Minissinaqua lake, MISSISSAGI RIVER.			<i>See also</i> Minnesota, iron.		
<i>See</i> Peninsula lake.			Compared with that of Boston tp.	262 A	xiv
Ministic lake, SUDBURY DIST.			Hutton tp.	319	xii
Diabase dikes on.....	76	i	Michipicoten div.	183	ix
Mink.			195	x	
Abitibi dist.	193	viii	175	xi	
242 A	xiv		299 A	xiv	
Hinterland, The	133	iv	Extension of, into Ontario.....		
Mattagami valley	131 A	xv	64, 68, 144, 145, 205	R C	
Michipicoten div., rare	297 A	xiv	176	i	
Moose River basin	178 A	xiii	65	ii	
Nipigon Lake dist.....	139 A	xvi	163	ix	
Timagami Lake dist.....	58	R C	200	x	
lake, RENFREW CO.			24, 128, 175	xi	
Marl in.....	107 B	xiii	Mining laws in.....	13	i
121 A	xiv		Notes on, by Coleman.....	152, 153	ix
Trenton formation on	104 B	xiii	Merritt, with diagrams.		
lake, NEAR SHEBANDOWAN			123-125	R C	
LAKE, TH. B. D.	118, 125	v	Ore of, analysis	75	ii
Minneapolis, U.S.			origin	53	ii
Brick pavements in	108	iii	199	x	
Minnehaha lake, S. OF WABIGOON			Production, 1884-1888	226	R C
LAKE, R. R. D.	10	vi	1892-93	146	iii
121	vii		"Minnie M" s.s.	62, 67	xi
Gold Mining Co.	10	viii	54, 55	xii	
Mining and Smelting Co.			53 A	xiii	
Capital and date of charter	25 A	xiv	Minnisinaqua lake and river, ALG.		
Work by, 1906.....	44 A	xvi	Notes on, by Parks....	126, 127	ix
Minnesota, U.S.			Route from, to Ground-hog river,		
Agassiz lake in	202	v	description	130, 131	ix
Area of.....	193	v	Minnitaki lake, R. R. D.		
Gold mining in, 1896.....	6 Bull.	i	Character of country near	176	vii
117	vi		Clay on.....	90	v
Indian reserve in, notes on	166	v	Description and geology..	56-58	v
			Glacial striae on.....	88	v

	Page.	Vol.
Minnitaki lake, R. R. D.—Con.		
Gold mining on, 1896.....	6	Bull. i
	267	vi
1897.....	78, 179	vii
1898.....	69-72	viii
1899.....	64	ix
Iron pyrites near.....	47	A xv
mining.....	20, 61	A xv
Rocks on and near..	170, 171	vii
Huronian.....	18	R C
	165, 171	vii
petrographical notes.....	95	v
schists, auriferous.....	87	v
Route from, to Wabigoon, description.....	171, 172	vii
Sands on, stratified.....	93	v
Minto (A L 200) gold mine, ISLAND FALLS, SEINE RIVER.		
Notes on, 1903.....	71, 72	A xiii
1904.....	57	A xiv
1905 and photos.....	48-50	A xv
1906 ..	56	A xvi
See also Reading Mining Co.		
gold mine, S. OF WAWA LAKE, MICHIPICOTEN DIV.		
Iron ore in	183	A xv
Work by, 1899.....	114	ix
1900.....	139	x
tp., WELLINGTON CO.		
Brick yards in. See Drew.		
Mirador mine, JALISCO, MEXICO.		
Cobalt minerals in	71	B xiv
Miron, Joseph	135	A xiii
Louis.....	132	viii
	135	A xiii
lake, N. OF L. SUPERIOR, TH. B. D.		
Brulé patches near	296	A xiv
Rocks on	349	A xiv
Mirrors.		
Acetylene for.....	33	v
Miry lake, S. OF SHEBANDOWAN LAKE, TH. B. D.....	127, 128	v
Misemikowish (Beaver-house) lake, NIP.		
Country around, character.....	215	xi
Description of, by Miller	222	xi
Mishawashkong river. See Mada-waska river.		
Mishewawa lake, MICHIPICOTEN DIV., ALG.		
Iron formation on and near.....	180, 181, 204	A xv
Michipicoten schists on.....	202	A xv
Mispickel.		
See also Arsenic.		
Arsenic from	72	R C
Association of, with gold	38	iv
eastern Ont.....	203	xi
views of Stewart .	111	R C
Composition of.....	204	xi
Crystallography of	187	ii
Determination of	204, 221	vi
Foreign countries.....	101, 102	xi
Grant co., Oregon.....	71	B xiv
Joachimsthal, Bohemia	61	B xiv

Mispickel.—Con.

	Page.	Vol.
Occurrences	205	ix
Paper by Wells.....	102-106	xi
Treatment of ore containing	110	R C
Actinolite, Ont.....	56	xii
Coleman tp.....	12	B xiv
Dinorwic (near)	125	vii
Edgeware island, L. Huron.....	109	R C
Graham tp., analysis.....	205	ix
Hastings co.:—		
associated with gold.....	55	iii
	200	xi
Lake and Tudor tps.....	205	ix
Madoc tp.....	28, 107	R C
Marmora tp.....	66, 110	R C
	52	iii
auriferous.....	205	ix
photo	112, 113	xi
notes by Miller.....	197, 198	xi
Kaladar tp.....	201	xi
Lake of the Woods, in gold ores.		
	116, 118	R C
Pipestone pt.	31	iii
Port Arthur dist.....	57, 58	B xiv
Rainy Lake dist., scarce	74	iv
Ramsay tp.....	146	R C
Sault Ste. Marie dist.....	59	R C
Steep-rock portage, Missinaibi river.....	256	v
Timagami dist.....	205	ix
Arsenic lake.....	73	A xiv
	88	A xv
Net lake.....	173	ix
	179	x
	101	A xiii
	87, 88	A xv
Grey siding.. ..	74	A xvi
prospecting near	23	A xv
Timagami (near), analysis....	23	B xiv
lake, Austin bay. 174, 179		x
Wanapitei lake, with gold.....	27	R C
Misquamibie lake, TATATICHIPIKA RIVER.....	128	ix
Missinaibi, MICHIPICOTEN DIV., ALG.		
Coal wrongly reported at....	136, 149	vii
Diabase from, petrography.....	149	vii
Explorations between, and Trudeauau, paper by Borron....	241-258	v
H. B. C. post at.....	3, 13	Bull. iii
	185	vii
Huntelite near.....	200	ix
Indians at, photo.....	201	A xv
Photo of.....	204, 205	vii
Pictographs at.....	186	vii
Rocks at and near	188	vii
Huronian.....	253	v
Route from to:—		
Magpie lake, description... ..	197-199	vii
river “	294, 295	A xiv
Michipicoten “	193-197	vii
Wawa.....	201, 202	A xv
lake, MISSINAIBI RIVER, ALG.		
Forest fires around.....	142	ix
Notes on, by Parks.....	140	ix
Rocks on.....	250	v

	Page.	Vol.		Page.	Vol.
Missinaibi river, MOOSE RIVER, ALG.			Mississauga River Gold Mg. Co.		
Agricultural land near.....	114	iv	Capital and date of charter.....	11	vii
clay belt, width.....	175	A xiii	Mississagi (MISSISAUGA), L. HURON,		
Distance from, to Opatatika lake.....	181	A xvi	ALG.		
Falls of.....	145	A xiii	Iron ore at.....	143	R C
Forest fires on.....	177	A xiii	river, L. HURON.		
Gypsum on.....	45, 70	R C	Agricultural land in valley of....	152	viii
	178	i	Arkose rocks E. of.....	74	i
Kaolin on, and in tribs.....	70	R C	Copper mining on.....	25	vii
	4, 173	i		18, 37, 148	viii
	127	iv	Explorations on, report by Graton.		
	160	A xiii		157-172	xii
exhibited at World's Fair.....	189	ii	Fault from, to Echo lake.....	39	iii
Kaolinite in.....	200	ix	Gold on, placer mining.....	149	viii
Lignite on.....	52, 70	R C	Iron on.....	23	xi
	178	i	Lumbering on.....	119	iv
	188, 194	viii	Minor ref.....	202	v
	136	A xiii	Photos.....	136, 137	viii
notes by J. M. Bell... 161,	162	A xiii		160, 161	xii
Gibson..... 124,	125	iv	Terraces on.....	152	viii
sketch map showing.....	163	A xiii	Waterpower on.....	25, 252	vii
tributaries, probability of.	174	A xiii			
Low land at headwaters of, alti-			Mississauga Mining Co.		
tude.....	9	Bull. iii	Capital and date of charter.....	9	x
Marine deposits on.....	157	vi	Mississippi iron mine, LAVANT TP.,		
fossils.....	50	R C	LANARK CO.		
Minor ref. to.....	201	v	Minor ref. to.....	59	ii
Natural gas on.....	128	iv	Notes on, by Folger.....	135	R C
	198	ix	lake, LANARK TP., LANARK CO.		
Notes on, by Parks.....	194, 195	viii	Peat east of.....	190	i
	139, 140	ix	Mining Co.		
Photos of. 144, 145, 176, 177, 224,	225	A xiii	Capital and date of charter.....	10	vii
Portages on.....	105	iv	river, ONT.		
Rocks on and near.....	138	A xiii	Crystalline limestone on.....	221	viii
glacial age.....	143	A xiii	Field prospecting on, notes by		
limestone, Corniferous....	47	R C	Miller.....	218	v
fossiliferous....	32	B xiii	Mica-schists on.....	101	B xiii
Route to, from Trout river, des-			Waterpower on.....	390	R C
cription.....	137-139	ix	Missouri, U. S.		
Sand on, for glass-making.....	128	iv	Lithographic stone in, analysis.		
Terraced valleys on.....	147	A xiii		181, 182	ii
Trading post on, French.....	196	v	University.		
Trees on and near.....	176	A xiii	Notes on, by Richards.....	511	R C
pine.....	119	iv	Missus lake, MANITOU LAKE REG.,		
Tributaries of.....	145	A xiii	R. R. D.		
Water of, clear.....	190	viii	Keewatin formation on....	49, 50, 62	iv
Waterpower on.....	252	vii	Route from, to Pipestone lake,		
			notes.....	88	iv
Mission, The, MICHIPICOTEN RIVER,			Mist inlet, L. OF THE WOODS.		
ALG.			Notes on, by Coleman.....	103	vi
Biotite picrite from.....	191	A xv	Mistassini lake, MISTASSINI DIST.,		
Character of river near.....	176	A xv	QUE.		
Founding of.....	175	A xv	Copper on.....	24	R C
Iron formation near.....	177, 204	A xv	Huronian on.....	18	R C
Pleistocene deposits near.....	184	xi		204	v
	196-198	A xv		159	A xv
Missions.			Mistoogo river, ABITIBI RIVER.		
Diocese of Moosonee.....	192	viii	Description of.....	202	A xiv
Fort Frances (near).....	162	v	Minor ref. to.....	232	A xiv
Garden River.....	122	viii	Ravines on.....	199	A xiv
Lac Seul, Kee.....	61	v	Timber on.....	203	A xiv
Lost lake, R. R. D.....	60	v	Mitchell, Arthur		
Mackimac island.....	109	v	Manager, Helen iron mine.....	138	x
Michipicoten river.....	298	A xiv	See also Powell and Mitchell.		
See also Mission, The			C. W.		
Mississauga Forest Reserve Mg.			Gold mining by, Manitou lake...	84	vi
div.					
Creation of.....	36	A xvi			
Description of.....	44	A xvi			

	Page.	Vol.		Page.	Vol.
Mitchell, George			Mohawk river, N. Y.		
Evidence by, before R. C. re :—			Glaciation on	238 A	xiii
gold mining, L. of the Woods.			beaches, Algonquin	235, 236 A	xiii
64, 117, 446	R C		Iroquois	233 A	xiii
mining laws	313	R C	Waterpower at	485	R C
J.	104	viii	Mohr, A. T.	60	ix
117	ix		Mohs, Friedrich		
J. A.	162 A	xiv	Scale of hardness by	201	vi
James			Moir gold mine, MADOC TP.,		
Mica mining by, Fergusson tp. .	280	v	HASTINGS CO.	111	R C
James B.	100	ix	Gold Mining Co.		
John	201, 206-209	iv	Report to, of Belmont gold mine.		
Mary E.	104	viii	50, 51	iii	
117	ix		lake, MADOC TP., HASTINGS CO.		
143	x		Garnet on	198	ix
R. E.	241	ii	Rutile on island in	298	ix
William	31	ix	Talc mining on	205	xi
Mitchell, LOGAN TP., PERTH CO.			Trenton formation on	27, 89 B	xiii
Boring at, for salt	54, 185	R C	river, MADOC TP., HASTINGS CO.		
farm, WOODSLEE, ROCHESTER			Bannockburn gold mill site on..	264	v
TP., ESSEX CO.			Granite on	53	iii
Boring near, for oil, log.	111 A	xv	contact with diorite	194	xi
iron claim, N. CROSBY TP.,			Iron ore east of	42	ii
LEEDS CO.	49	ii	Trenton formation on	89 B	xiii
silver claim, NEAR HAILEY-			Moisie, SAGUENAY CO., QUE.		
BURY, NIP.	34, 35 A	xvi	Charcoal furnace at	325	xii
Mitchener (OR HAMILTON) nickel			Titanic iron ore at	189	v
mine, NEAR WORTHINGTON,			river, GULF OF ST. LAWRENCE.		
DRURY TP., ALG.			Magnetic sand of, notes by Bell.	491	R C
Rocks in	30, 31, 114 C	xiv	Moissan, H.		
norite	272	xii	Experiments by, on calcium car-		
Mitella nuda.			bide	165	iv
Abitibi Lake dist.	241 A	xiv	Mokaki lake, BETWEEN OPASATIKA		
Mattagami valley	150 A	xv	AND KAPUSKASING RIVERS,		
Mixer, C. T.			ALG.	144 A	xiii
Analysis by, of nickel minerals.			Mokoman station, CONMEE TP.,		
165, 166, 170	ii		TH. B. D.		
Chemist to Emmens Metal Co. .	168	ii	Pyrites near	172 A	xvi
Whartonite found by, Sudbury			Molin, William		
dist.	169	ii	Analysis by, of iron ore, Snow-		
Moccassin mine, NEAR ROSSPORT,			don tp.	81	ii
TH. B. D.			Notes by, on Belmont iron de-		
Notes on, 1900	109, 110	x	posit	80	ii
Mocon gold mine, JACKFISH BAY,			Mollath, John	249	xi
L. SUPERIOR.			52 A	xiv	
Notes on, 1896	266	vi	Molle lake, NIP.		
Modern Brick and Stone Co.			Black bear on	127 A	xiii
Capital and date of charter	26 A	xv	Molluscoidea.		
Modiolopsis modiolaris.			Anderdon tp.	125	xi
Gore Bay	77 B	xiii	Molson, Markland		
Modiomorpha.			Iron smelting by, Moisie river,		
Kwataboahagan river, notes. .	188 A	xiii	Que.	491	R C
photos ..	192 A	xiii	Moltke, F.	105	vii
Modum, NORWAY.			Molybdenite AND Molybdenum.		
Colour works at	89 B	xiv	Apatite deposits	442	R C
Moffat, Miss Anne	6	x	Description of	538	R C
E. S.			Hardness of	201	vi
Ref. to paper by, on concentra-			Lac Seul, Kee	61	v
tion of iron ores	320	xii	Middlesburg dist., Transvaal...	70 B	xiv
Moffatt, Hon. George	127	vi	Norway	67 B	xiv
Mogok, BURMA.			Notes by Miller	232	vii
Rubies near	241	viii	Production of, 1902	12, 25	xii
Mogotherium gold mine. Misprint			1903	2 A	xiii
for Megatherium gold mine.			6 A	xvi	
Mohawk Mining Co.					
Capital and date of charter	11	vii			
Natural Gas Co.					
Capital and date of charter	24 A	xiii			

	Page.	Vol.		Page.	Vol.
Molybdenite AND Molydenum.—Con.			Mond Nickel Co.		
Specific gravity of.....	201	vi	See also Little Stobie m.		
Uses of.....	218	vi	Mond, Dr. Ludwig		
	46	xi	North Star m.		
<hr/>			Accidents at mines of.....	33 A	xv
<hr/>				34, 35 A	xvi
Ansthruther tp.....	56	xii	Bins of, photo.....	272, 273	xi
Belmont tp.....	57	xii	Boring plant purchased by.....	42 A	xiii
Crosby, N. tp.....	205	ix	Capital and date of charter.....	10	x
Dungannon tp.....	205	ix	Exhibits of, at Pan-American		
Foley tp.....	167	ix	Exhibition.....	86	xi
Haliburton co:—			Future of, good.....	144 C	xiv
Harcourt tp.....	205	ix	History of.....	142, 143 C	xiv
Lutterworth tp.....	57 B	xiii	Operating, Sudbury dist.....	20, 21	xi
notes by Mills.....	45, 46	xi		125	xii
Lake of the Woods region.....	62	R C		68, 72 A	xiv
Quarry island.....	14	iii		15, 28 C	xiv
Shoal lake.....	106	vi	Garson tp.....	66	xv
Lake Superior, N. shore:—				39, 66, 67 A	xvi
Black river.....	61	R C	Victoria mines... 11, 12 A		xv
copper-bearing rocks.....	131	vi	idle.....	59 A	xiii
Terrace cove.....	205	ix	Production, 1902.....	17, 19	xii
Laxton tp.....	25	xii	1903.....	6 A	xiii
Miller tp.....	205	ix	1906.....	14 A	xvi
Molybdenite lake.....	354 A	xiv	increasing.....	56 A	xvi
Monteagle tp.....	205	ix	Mondoux, O.	184 A	xiv
Renfrew co., at World's Fair... 187		ii	gold mine, RATHBUN TP., NIP.		
Calabogie, near.....	55	xii	Notes on, 1894.....	263	v
Renfrew co., Craigmont.....	43 A	xv	<i>Moneses grandiflora.</i>		
Ross tp.....	194	ii	Abitibi Lake dist.....	241 A	xiv
	205	ix	Mattagami valley.....	150 A	xv
Worthington mine, Sudbury.... 161 C		xiv	Monier, Emile		
lake, MICHIPICOTEN DIV., ALG.			Ref. to work by, on strengthen-		
Length of.....	289 A	xiv	ing of concrete.....	176 A	xiv
Molybdenite on.....	354 A	xiv	Monkton, LOGAN TP., PERTH CO.		
Molybdiite (Molybdic ochre).			Brick making at.....	94 B	xv
Ross tp.....	194	ii	Monmouth tp., HALIBURTON CO.		
	205	ix	Apatite in.....	173	R C
"Monadnock" s.s.				194	ix
Armour of.....	149	iii	Grenville series in.....	56 B	xiii
"Monarch" s.s.	40	iv	Iron ore in, analysis.....	62	ii
Monarch gold mine, HELLDIVER				202	ix
BAY, L. OF THE WOODS.			railway for developing.....	61	ii
Notes on, 1897.....	33, 121	vii	Nepheline-syenite in.....	215	viii
Mining Co.			Monmouthshire, WALES.		
Capital and date of charter.....	9	x	Coal in, royalty on.....	36	i
Monazite.			Monnell, Ambrose	22	xi
Hardness and specific gravity of.	202	vi	Mono Mills, ALBION TP., PEEL CO.		
Notes on, by Goodwin.....	218	vi	Terrace near, altitude.....	177	ix
Monclova, LUCAS CO., OHIO.			tp., DUFFERIN CO.		
Cincinnati arch near.....	116	i	Cambro-Silurian in.....	39 B	xiii
Moncrieff tp., ALG.			Sandstone quarrying in... ..	99	i
Diabase dike in ..	76	i	notes.....	110	ix
Mond, Dr. Ludwig			<i>Monohammus confusor.</i> See Pine borer.		
See also Mond Nickel Co.			" <i>sentellatus.</i> See Pine borer.		
Claims of, Sudbury dist.:—			<i>Monotropa hypopitys.</i>		
idle, 1899.....	99	ix	Abitibi Lake dist.....	241 A	xiv
Vermilion mine.....	53	x	Mattagami valley.....	151 A	xv
Victoria mine.....	36, 124	x	" <i>uniflora.</i>		
Photo of.....	143 C	xiv	Abitibi Lake dist.....	241 A	xiv
Process of, for nickel extraction:—			Mattagami valley.....	151 A	xv
notes by Blue.....	7	viii	Monroe co., MICH.		
paper on, by Roberts-Austen.	106-120	viii	Limestone in, quality.....	43 B	xiii
plans and section to illustrate.	112, 113	viii	Mons, BELGIUM.		
speech by, on.....	117, 120	viii	Peat used in, for sanitation.....	216	ii
Process of, for nickel-plating.... 159		ii	Monsarrat, N. S.	117	ix
Volatility of nickel in carbonic-				143	x
oxide discovered by.....	146	ii		74	xi

	Page.	Vol.
Montague, J. A.		
Copper prospecting by, Whiskey Lake dist.....	67 A	xiv
.....	69 A	xv
Manager for Northern Ontario Copper Co.....	69 A	xv
.....	70 A	xvi
J. W.	105	vii
tp., LANARK CO.		
Iron mining in.....	142	R C
Montataire, OISE DEPT., FRANCE.		
Nickel-steel made at.....	165 C	xiv
Montalba loc., WALLACE MINES, ALG.		
Notes on, by Merritt.....	91	R C
Montalhatti, Joseph	123	vii
Montana, U.S.		
Clay from, analysis.....	120	iii
Corundum in.....	213, 215	vii
Mining laws of, notes.....	282	R C
Montcalm co., QUE.		
Grenville series in.....	11	R C
Monte Christo gold mine, SHOAL LAKE, L. OF THE WOODS.		
Notes on, 1896.....	107	vi
Monte Diabolo, CALIFORNIA.		
Coal at.....	175 A	xiii
Monteagle tp., HASTINGS CO.		
Apatite in.....	194	ix
Biotite in.....	195	ix
Chabazite in.....	196	ix
Corundum in.....	84 A	xvi
notes by Blue.....	246	viii
Miller.....	220-222	viii
probability of.....	224	vii
Molybdenite in.....	205	ix
Nepheline-syenite in.....	250	viii
Pyrrhotite in.....	207	ix
.....	200 A	xvi
Montenaro, Gustenzo	31 A	xv
Montgomery, Alexander	515-521	R C
Mrs. W.	24	viii
William N.		
Evidence by, before R. C. re:—		
Crown Point mine.....	201	R C
mining laws.....	312	R C
want of railways.....	240	R C
Killed.....	24, 25, 98	viii
Montgomery, MONTANA, U.S.		
Paving clay from, analysis.....	120	iii
tp., ALG.		
Copper in.....	23	xi
See also Huston mine.....	98	xii
Monticulipora.		
Abitibi river.....	187	viii
Anderdon tp.....	125	xi
Montizambert, TH. B. D.	242	v
Montreal, QUE.		
Anorthosite N. of.....	11	R C
C. P. R'y. from, to Vancouver, opening.....	171	v
Car wheel foundries in.....	329	R C
Glaciation around, direction....	49	R C
Labradorite N. of.....	11	R C
Leda clay of.....	216	x
Natural gas near.....	126	i
Nepheline rocks of, ref. to.....	213	xi
Oil refinery at.....	157	R C
Privy pits of, tests of moss-litter in.....	191	vi

	Page.	Vol.
Montreal and Boston Consolidated Mg. and Smelting Co.		
Capital and date of charter.....	24 A	xiii
and Ottawa Peat Co.		
Capital and date of charter.....	24 A	xiii
Car Co.	329	R C
Cobalt Mg. Co.		
Capital and date of charter.....	28 A	xvi
island, L. SUPERIOR.		
Sandstone on.....	131	viii
-Manitou Mines Co.		
Capital and date of charter.....	10	ix
Mining Co.		
Apatite mining by, Bobs lake... See also Bobs lake.	239	i
Area acquired by.....	256	R C
transferred to Sibley Syn.....	141, 143, 157	vi
Mg. Co.		
Assignees of Woods' location. 127, 139		vi
Bruce mines worked by:—		
evidence before R. C.....	95-97	R C
notes by Palmer.....	174	ii
Copper mining by:—		
Gargantua cape.....	206	vii
Mamainse pen.....	98	R C
.....	129, 130, 241	ii
.....	73	iii
report by Borron.....	64-66	iii
Silver Islet mine worked by....	34	R C
evidence before R. C. 93, 195, 197		R C
sale of mine.....	95	R C
Reduction and Smelting Co.		
Plant built by, North Bay.....	12 A	xvi
river, L. SUPERIOR, ONT.		
Beaches at mouth of.....	153, 155	viii
.....	176	ix
Iron ore reported near.....	23	R C
Notes on, by Charlton, jnr.. 197-199		viii
Coleman.....	130	viii
Photo of mouth of.....	168, 169	viii
Shores in vicinity of, description. 130		viii
river, L. SUPERIOR, U. S.		
Rocks on.....	83	iii
river, OTTAWA RIVER.		
Basin of, notes by Burwash.. 173-176		vi
Copper on.....	24, 57	R C
east branch.....	91	i
Falls of, photo.....	236 A	xiv
Iron on.....	127	iv
hematite.....	15 A	xv
pyrites, assay.....	209 A	xiv
specular.....	142	R C
Marl from N. of, analysis.....	209 A	xiv
Minor ref. to.....	201	v
Prospecting on, follows Cobalt discoveries.....	8 A	xvi
Rocks on and near:—		
arkose.....	74	i
gneiss.....	69	i
greenstone.....	75	i
Huronian.....	71	i
.....	124	iv
disturbed.....	17	R C
quartzite.....	20	R C
Keewatin.....	44 B	xiv
limestone.....	81-83 B	xiii
dolomite.....	81	i
serpentine.....	81	i

	Page.	Vol.		Page.	Vol.
Montreal river.—Con.			Moore, J. T.	67	viii
Smaltite on.....	11	A XV		78	x
Striae on.....	181	vi	Joseph	128, 142	ix
Terraces at mouth of.....	172	ix	Nathaniel D.		
Trout in.....	172	ii	Evidence by, <i>re</i> free trade.....	233	R C
V-shaped turns in.....	36	B XIV	phosphate, Syd- enham dist....	171	R C
Water-power on.....	252	vii	Thomas	55	A xiii
	14	A XV	W.	56	xii
River Mining div.			bay, L. OF THE WOODS, R.R.D.	117	R C
Creation of.....	36	A XVI	Contact veins near.....	21	iii
Description of.....	45, 46	A XVI	Minor ref. to.....	21	iii
River Silver Syndicate.			iron mine, MADOC TP., HAST- INGS CO.	20, 47	xii
Capital and date of charter.....	30	A XVI	lake, CREIGHTON TP., ALG.		
Montrose tp., WELLAND CO.			Nickel-bearing eruptives near....	38	C XIV
Limestone in. <i>See</i> Niagara Falls.			location, CRAIG TP., ALG.		
Monzonite.			Galena in.....	92	i
Mijinnemungshing lake.....	179, 191	A XV	Oil and Gas Co.		
Moodie, John	222	ix	Log of well drilled by.....	112	A XIV
Moody, George			tp., LAMBTON CO.		
Brick-yard of, notes and photo..	73	B XV	Oil in.....	20, 89	A XIV
tp., NIP.			borings for.....	112	A XIV
Soil in, muskeg.....	187, 209	A XIV	production, 1905.....	108	A XV
requires drainage.	207	A XIV	1906.....	24	A XVI
Trees in.....	233, 235	A XIV	Salt in. <i>See</i> Courtright.		
Mook, J. H.			Moorehouse, J. J.		
Oil well drilling by, Stratford...	110	A XV	Promoter of smelter at Hamilton.	29, 30	iv
Moon, George C.	156	vi	James.	29	iv
bay, L. OF THE WOODS, R.R.			Moorehead Bros. & Co.		
D.....	232	ii	Wages paid by, statistics.....	370	R C
lake, MICHIPICOTEN DIV. <i>See</i>			McLean & Co.		
Talbot lake.			Labour employed by, statistics..	370	R C
river, P. S. D.			Turnover of, 1892-3.....	119	ii
Copper prospecting in.....	121	x	Moose.		
Moonshine lake, NEAR MANITOU			Abitibi dist.....	193	viii
LAKE, R.R.D.	123	vii		105, 127	A xiii
Moonstone.				242, 253	A XIV
Definition of.....	538	R C	Atikokan river.....	144	v
Moor, William	39, 40	iii	Blanche River region.....	224	xi
Moore, Charles				189	xii
Silver discovered by, L. of the			Hinterland, The.....	133	iv
Woods.....	64	R C	Hudson Bay slope.....	178	vi
Sultana mine partly owned by..	16	iii	Lac des Mille Lacs.....	135	v
D. H.			Lake Huron slope.....	170	vi
Peat plant installed by, Victoria			Matawin valley.....	129	v
Road.....	23	A XIV	Mattagami valley.....	131	A XV
E. S.			Maud lake, L. of the Woods. 116,	120	vii
Description by, of Goetz iron			Michipicoten div.....	297	A XIV
claim.....	181	A XV		200	A XV
Report by, on:—			Mississagi River dist. (scarce)...	172	xii
Iron ranges E. of L. Nipigon.	136-148	A XVI	Moose River basin.....	178	A xiii
ref. to....	2, 17	A XVI	Moss tp.	120	v
Iron Ranges, Eastern Michipi-			Nipigon Lake dist.....	139	A XVI
coten div.....	200-206	A XV	Niven's base line and S. of.....	142	ix
Work by, 1905.....	15, 175	A XV	Pigeon River dist.....	147	ix
1906.....	105	A XVI	Pontiac co., Que.....	162	x
E. V.			Rainy Lake dist.....	97	iv
Peat plant erected by, Victoria			Timagami Lake region.....	58	R C
Road.....	23	A XIV		162	x
Edward (lumberman).....	106	R C	bay, L. TIMISKAMING, NIP.		
Edward (miner).....	55	A xiii	Slates on.....	41	B XIV
F. W.			Creek, ROXBORO TP., STORMONT		
Gold prospecting by, L. of the			CO.		
Woods.....	21, 25	iii	Gravel pit in.....	219	x
H. H.	110, 117	vii	Trenton limestone near.....	48, 111	B xiii
John					
Discoverer of Black Donald graph-					
ite mine.....	31	v			
	53, 54	A xiii			

	Page.	Vol.
Moose Factory, JAMES BAY.		
Built, 1730.....	196	v
Customs returns from.....	135	iv
Glacial drift near.....	143	A xiii
Harbour at, possibility of.....	191	viii
Limestone at.....	142	A xiii
Marine deposits S. of.....	137	vi
Meteorological observations at.....	106, 107	iv
Moose near.....	178	A xiii
Notes on, by Parks.....	191, 192	viii
Sandstone near.....	142	A xiii
School at, Govt. grant to.....	134	iv
Soil south of.....	114	iv
	176	A xiii
gold mine, KOOKAGAMING LAKE, NIP.		
Notes on, 1897.....	140	vii
island, JAMES BAY.		
H. B. C. post on. <i>See</i> Ship Hole.		
Indian camp on, photo.....	200, 201	viii
island, L. TIMISKAMING. <i>See</i> Bryson island.		
lake, ALGOMA-NIPISSING BOUNDARY LINE.		
Map of, sketch.....	177	vi
Rocks on.....	179	vi
Trees on.....	176	vi
lake, CAPREOL AND MACLENNAN TPS., NIP.		
Nickel mining on.....	285	xi
	273	xii
Rocks near.....	274	xii
	203	A xiii
	73, 115	C xiv
conglomerate.....	130, 132	C xiv
lake, DRIFTWOOD RIVER, NIP.		
Clays of, kaolinic.....	xii	A xiii
Moose on.....	242	A xiv
Notes on, by Kay.....	108	A xiii
Porphyritic rocks near.....	120	A xiii
Timber in district of.....	124	A xiii
lake, LEVACK AND MORGAN TPS., SUDBURY DIST.		
Geology of vicinity.....	198	A xiii
Minor ref. to.....	192	A xiii
Rocks on and near.....	68	C xiv
granite, character.....	84	i
nickel eruptive, petrography.....	211	A xiii
norite, weathering of.....	66	C xiv
lake, SEINE RIVER, R. R. D.		
Gold mining near.....	81	ix
Notes on, by Coleman.....	77	vi
lake, SOUTH OF WABIGOON LAKE, MANITOU LAKE DIST.		
Gold mining on, 1900.....	97	x
Lake Mining and Milling Co.		
Capital and date of charter.....	9	x
Work by, 1900.....	97	x
suspended.....	250	xi
mt., HUTTON TP., NIP.		
Geology of, and vicinity....	219, 220	A xiii
Iron on and near:—		
analysis.....	16, 70	A xvi
notes on, by Coleman.....	298, 299	xii
	216, 217	A xiii
Miller.....	61	A xvi
paper on, by Leith, with map.	318-321	xii

Moose mt.—Con.

Ore of, compared to that of Michipicoten div.....	179, 180	A xv
Rocks on.....	204	A xiii
Mountain, Ltd.		
Capital and date of charter.....	37	A xiii
Work by, 1906.....	39	A xvi
river, JAMES BAY.		
Basin of, character.....	203, 204	v
economic resources, report by J. M. Bell. 135-197	135-197	A xiii
Corniferous formation W. of....	47	R C
Country between, and Mattagami river, description.....	114	iv
French fort on.....	197	v
Gypsum deposits on and on tribs.	45, 69, 70	R C
	110, 178	i
	127	iv
	199	ix
	156, 157	A xiii
	32	B xiii
analysis.....	159	A xiii
map showing.....	155	A xiii
photos.....	160, 161	A xiii
selenite.....	208	ix
Huronian on.....	18	R C
	169	i
Kaolin on tribs. of.....	4	i
Lignite on.....	178, 181, 184	i
	203	ii
	219	vi
	201	ix
analysis.....	174	A xiii
Mouth of, suitability for harbour, notes.....	128, 129	iv
Navigation on.....	103	iv
Notes on, by Parks.....	190, 191, 194	viii
Peat bogs on.....	178, 191	i
Salt on, possibility of.....	32	B xiii
Timber on.....	119, 120	iv
Tributaries of, parallel.....	76	i
Watershed of.....	201	v
Moosonee lake, KWATABOAHEGAN RIVER, ALG.		
Character of.....	146	A xiii
Minor ref. to.....	137	A xiii
Mora tp., PETERBOROUGH CO.		
Old name for Belmont tp.....	15	ii
Moraine.		
Definition of.....	538	R C
Ignace, near.....	172	vii
Lake Superior, north of.....	50	R C
Michipicoten river.....	7	Bull. iii
Nipigon river.....	107	A xvi
Sudbury dist.....	102	C xiv
United States, northern.....	123	ix
Moran, D.; P. AND Mrs. P.		
	105	vii
	104	viii
	117	ix
Tony	54, 57	xi
Morenosite.		
Cobalt dist.....	xi	A xiii
Sudbury deposits.....	163	C xiv
Denison and Drury tps.....	205	ix
Wallace mine.....	194	ii
	205	ix
Moreson, Otto	100	ix
Morgan, J.	105	vii

	Page.	Vol.		Page.	Vol.
Morgan, J. W.			Morris, William Dowler <i>See</i> Morris		
Recorder, Port Arthur Mg. div...	36	A xvi	and Ballantyne.		
Report by, on same.....	42	A xvi	Zoie	117	ix
John	139	vi	and Bailey	120	ii
R. R.	46	v	and Ballantyne.		
William Pritchard			Brick-yard of, Billings Bridge...	61	B xv
Evidence by, <i>re</i> royalties in			clay for, analysis.....	31	B xv
Wales and the Colonies.....	44-46	i	Morriseau, A. J.		
lake, BARRIE TP., FRONTENAC			Iron claim of, Pic river.....	297	viii
co.			Licence to.....	74	xi
Conglomerate on.....	202	xi	Morrish, N. D.	104	viii
Rocks north of.....	202	xi	Morrison, A. M.	143	x
tp., SUDBURY DIST., ALG.			A. V.	234	xi
Glaciation in.....	102, 106	C xiv	Daniel		
Gossan absent in N. E. part of...	16	C xiv	Manager, Crystal gold mine....	86	vi
Nickel prospecting in.....	152	x	Decca gold mine.....	68	ix
Rocks in.....	274	xii	E.	143	x
greenstone	75	i		74	xi
eruptive.....	206	x	Major, E. W. B.	34, 35	A xv
nickel-bearing eruptive....	200, 208	A xiii		49-52	A xvi
	11, 62, 68-71	C xiv	James	39, 41	A xiii
petrographical notes.....	110	C xiv	Peter	48	xii
Morin, J.	117	ix	T.		
	48	A xiii	Marble working by, near Ban-		
lake, ROBERTS TP., ALG.			croft.....	106, 107	A xv
Iron ore on.....	223, 224	A xiii	T. F.	62	A xiii
tp., ALG.			W. H.	104	viii
Copper in.....	23	xi	W. J.		
mining.....	272	xi	Evidence by, before R. C.:—		
	79, 80	A xiii	apatite, N. Burgess tp.....	173	R C
Morland, Watson & Co.			barytes.....	53	R C
Peat used by, for smelting	207	i	graphite, N. Elmsley tp.....	181	R C
Morley, W. <i>See</i> next ref.			iron, Haliburton dist.....	137	R C
and Ashbridge.			marble, Frontenac co.....	80	R C
Brick making by, Toronto.....	29	xii	Morrow, J.		
	108	B xv	Corundum prospecting by, S.		
pyrites mine, NEAR SCHREI-			Sherbrooke tp.....	225	viii
BER, TH. B. D.			Part owner, Blair mica mine....	290	xi
Gossan from, analysis.....	186	A xvi	W. G.	22	ix
Limonite on timbers in, notes			Morse mt., NEAR PAINT LAKE, MICH-		
and photo.....	183, 184	A xvi	PICOTEN DIV., ALG.		
Notes on, by Fraleck.....	177	A xvi	Minor ref. to.....	307	A xiv
tp., R. R. D.	167	v	Rocks on.....	314	A xiv
Morningstar gas well, HUMBER-			iron bearing,.....	325	A xiv
STONE, WELLAND CO.			Mortar.		
Notes on, 1890.....	130	i	Cement for making, notes on....	170	A xiv
Morozewicz, Josef			Definition of.....	171	A xiv
Extracts from report by, on cor-			From Portland and natural cem-		
undum.....	229, 234-236	viii	ents, compared.....	163	A xiv
Experiments by, on corundum,			Lime in manufacture of, notes		
ref. to.....	253	viii	by Miller.....	12	B xiii
Morphet, Robert	140	i	Making of, impervious.....	173	A xiv
Morrey, Samuel	27	ix	Mortimer tp., NIP.		
Morrill tariff bill.			Explorations in, by Kerr.....	125	A xv
Affecting nickel.....	28	vii	Peat in, analysis.....	128	A xv
Morriss, C. S.			Morton distillery, KINGSTON.		
Acknowledgments to.....	96	vi	Analysis of water from well at..	204	ix
Contractor, Harold Lake mine..	146	v	lake, KITCHEN AND ROBERT		
Evidence by, before R.C.....	318	R C	TPS., ALG.		
Gold mining by, L. of the Woods.	40	vii	Conglomerate on.....	223	A xiii
Notes by, on tenure of mineral			Morty, John	79	x
lands.....	48	i	Mosa tp., MIDDLESEX CO.		
Triumph mine owned by.....	57	vii	Oil prospecting in.....	18, 21	vi
Morris, Sir John	175	R C	boring record.....	80	B xiii
John			Moscow prov., RUSSIA		
Iron mining by, Coe Hill.....	103	ix	Peat in.....	217	ii
Purchase by, of iron ore, for			Moseland, DENMARK.		
Pennsylvania.....	191	iii	Peat experiments at.....	211	ii
L. M.	120	ii			

	Page.	Vol.
Mosher, Dan		
Gold prospecting by, Manitou Lake reg.....	87	vi
Iron mining by, Rainy lake.....	267	xi
Mosher bay called after.....	87	vi
Part owner, Ferguson gold mine.	80	vi
John		
Part owner, Hillier gold mine.	65, 156.	157 v
Sale by, of certain claims.....	25	iv
Robert	80	vi
Rufus	80	vi
Bros.		
Gold prospecting by, Abitibi lake.....	219 A	xvi
bay , MANITOU STRAITS, R.R.D.		
Conglomerate belt on.....	184	ix
Gold mining on, 1897.....	123	vii
1901.....	247	xi
1902.....	92	xii
<i>See also</i> Manitou lake.		
Nomenclature of.....	87	vi
gold claim , MOSHER BAY, MANITOU STRAITS, R.R.D.		
Rocks of.....	57	iv
pt. , STEEP-ROCK LAKE, R.R.D.		
Iron prospecting at and near..	306, 307	xii
Mosquitoes.		
Abitibi dist., notes by Jarvis....	127 A	xiii
Abitibi river.....	190	viii
Forest fires caused by.....	311	R C
Kajagogamog lake.....	118	vii
Kenora.....	170	v
Lake Superior, N. shore.....	147	viii
Mackenzie creek, Little Wabigoon lake.....	54	v
Michipicoten mining div.....	171	ii
	100	viii
Mississagi River dist.....	172	xii
Rainy Lake dist.....	97	iv
Moss, Lee J.	75	ix
Moss. <i>See</i> Sphagnum.		
agate		
Definition of.....	538	R C
litter or Peat meal.		
Definition of.....	211	i
Experiments on, by Jardine....	23	vii
Europe.....	34 A	xiii
Holland, price.....	197	ii
notes by Copenhagen Milk Co.	211, 212	ii
Manufacture of, notes by Blue..	33, 34	iv
New Brunswick, utilization of ..	199	ii
Paper on, by Gibson.....	184-192	vi
Jack.....	139-144	iii
Uses of.....	121	iv
and value.....	34 A	xiii
reindeer		
Abitibi dist.....	218 A	xiv
tp. , TH. B.D.		
Examined by Coleman, 1895....	3, 4	v
Explorations in, notes by Blue.	119-121	v
Gold in, discovery.....	25	R C
evidence by Keefer.....	62	R C
<i>See also</i> Huronian g.m.		
Iron ore in.....	22, 145	R C
Map of.....	122	v
Nagyagate in.....	205	ix

	Page.	Vol.
Moss tp. , TH. B. D.— <i>Con.</i>		
Railway through, projected.....	133	v
Sylvanite from, shown at World's Fair.....	191	ii
Mosser Tower cooler.		
Description of.....	132 A	xiv
Moths.		
Abitibi dist.....	129 A	xiii
Motley, W. G.		
Acknowledgments to.....	103	v
Manager, Regina gold mine.	179-184, 238, 239	v
Reporting for an English Co....	182	v
Moulding clay.		
Notes and photos.....	44-46 B	xv
sand.		
Canadian production....	1886-87, 243	R C
Mouldy Bros.		
Brick-yard of, Kingston, notes..	64, 65 B	xv
clay for, analysis..	17 B	xv
Moulle—?		
Views of, on origin of diamonds..	93 A	xiv
Moulton tp. , HALDIMAND CO.		
Artesian wells in. <i>See</i> Dunnville.		
Natural gas in.....	91 A	xiv
	23 A	xv
<i>See also</i> Attercliffe field.		
Mound-builders.		
Arrow-heads made by, from rocks.....	83	i
Mount Bischoff tin mine , TASMANIA.	45	i
Desert island , HANCOCK CO., ME.		
Pyroxene and feldspar at.....	438	R C
Healy , ONEIDA TP., HALDIMAND CO.		
Gypsum at.....	122	R C
mine.....	242	i
	52 B	xiii
idle, 1892.....	253	ii
1893.....	199	iii
selenite.....	208	ix
Section of strata near.....	52 B	xiii
Hope , U.S. <i>See</i> Mounthope.		
McKay Brick and Tile Co.		
Capital and date of charter.....	24 A	xiii
nickel mine , BLEZARD TP.		
Notes on.....	254	xii
	55 C	xiv
Rocks of.....	294	xii
	56, 81 C	xiv
Smelting ores of, novel attempt at	144 C	xiv
Stockwork at.....	19 C	xiv
Pelee , MARTINIQUE.		
Disaster at, caused by gas.....	93 A	xiv
Royal Manitou Mg. Co.		
Capital and date of charter.....	10	ix
Savage , ALLEGANY CO., IND.		
Paving clay from, analysis.....	120	iii
Thomas , MADRAS, E. INDIA.		
Charnokite at.....	134 A	xv
Mountain, The , BLUE MTS.		
Notes on, by Coleman.....	122	viii
The , HAMILTON.		
Kaolin beneath.....	78, 86	R C
Stratified deposits at base of....	228 A	xiii

	Page.	Vol.		Page.	Vol.
Mountain Ash river, L. SUPERIOR, ALG.			Mud lake, ANZHEKUMMING LAKE, R.R.D. <i>See</i> Kabagukshi lake.		
Minor ref. to.....	285	A xiv	lake, CAMDEN TP., LENNOX CO.	27	B xiii
Rocks near mouth of.....	348	A xiv	lake, LOUGHBOROUGH TP., FRONTENAC CO.		
chute, MADAWASKA RIVER.			Mica prospecting on.....	85	A xiv
Waterpower of.....	27, 293	xi	lake, SOUTH CROSBY TP., LEEDS CO		
	133	xii	Iron ore on.....	34	ii
cork.			magnetite.....	346	R C
Definition of.....	538	R C	titaniferous.....	141	xi
Grove, OLDEN TP., FRONTENAC CO.			lake, TEMPLETON TP., QUE.		
Pyrrhotite in.....	200	A xvi	Apatite on, in banded vein.....	440	R C
iron mine, LAKE TP., HASTINGS CO.....	133	R C	lake, TIMISKAMING DIST., NIP.		
lake, GREY CO.			Conglomerate on.....	46	B xiv
Terrace on.....	176	ix	lake, WEST OF ALGOMA, TH. B.D.		
lake, N. E. OF MANITOU LAKE, R.R.D.			Brul� patches on.....	296	A xiv
Rocks on : gold on	86	vi	Canoeing on, difficult	287, 292	A xiv
lake, PETERBORO CO.			Minor ref. to.....	285	A xiv
Corundum on. <i>See</i> Bennet's cor- undum mine.			lake, YONGE TP., LEEDS CO.		
Swamp near.....	208	viii	Marl in.....	121	A xiv
lake, PRINCE EDWARD CO. <i>See</i> Lake on the Mountain.			Mud Turtle lake, VICTORIA CO.		
lake, STEEL RIVER, L. SUPER- IOR.			Trenton limestone on.....	113	B xiii
Photo of falls at.....	112, 113	ix	Mudge, G. D.		
leather (VARIETY OF ASBESTUS).			Copper prospecting by, Otter cove.....	134	viii
O'Connor tp.....	205	ix	Iron prospecting by, near Penin- sula	135	viii
Mining Co.			Sulphur mining by, near Schreiber	133	vii
Capital and date of charter	9	viii		89	x
portage, S. BRANCH OF BLANCHE RIVER, NIP.			bay, MANITOULIN ISLAND, L. HURON.		
Description of, by Miller....	225, 226	xi	Clinton formation on.....	78	B xiii
Limestone on.....	32	B xiv	copper mine. <i>See</i> Tip-top mine.		
portage, POKAY LAKE, ALG...	140	viii	Mudgeamanitou lake, MANITOULIN ISLAND, L. HURON.		
	228	A xiv	Niagara formation at.....	78	B xiii
quarry, MOUNTAIN TP., DUNDAS CO.			Muggley, Henry H.		
Limestone of, Cambro-Silurian..	47	B xiii	Cobalt reduction works projected by.....	12	A xvi
description.....	40	B xiii	Mukwa claim, NET LAKE, NIP.		
quarry, THOROLD TP., WEL- LAND CO.			Copper-nickel ore in.....	173	ix
Notes on.....	96	i	Muld—?		
	119, 120	B xiii	Analysis by, of peat.....	166	vi
river, DOG RIVER, L. SUPERIOR.			Muldoon, Jonathan.....	203	xi
Drainage area of.....	285	A xiv	Mullets corners, NEAR MADOC, HASTINGS CO.		
tp., DUNDAS CO.			Pyrites at.....	163	A xvi
Calcareous formation in.....	46	B xiii	Mulligan, H.		
quarried.....	40	B xiii	Brick-making by, Ottawa.....	60	B xv
Mounthope, FAYETTE CO., W. VA.			J. G.....	54	A xvi
Iron ore at.....	348	R C	Mulmur tp., DUFFERIN CO.		
Mousseau, Antonie.....	56, 57	xi	Boring in, for coal.....	43, 45	A xiii
Mowat, J. A.....	104	viii	Cambro-Silurian in.....	39	B xiii
Hon. Sir Oliver			Niagara formation in.....	49, 120	B xiii
Transmittal letters to, 1900.....	3	x	Mulloch, W. Redford.....	55	viii
1901.....	1	xi	Sir William		
Moxham, A. J.			Iron prospecting by, near Tima- gami	88	A xv
Estimate by, <i>re</i> iron production, Pittsburg.....	63	x	Multonborough, CARROLL CO., N. H.		
Notes by, on iron-making in Canada.....	33, 34	x	Nepheline-syenite from.....	209	xi
MR 4=24 iron loc., BOSTON TP., NIP.			Muncie, DELAWARE CO., IND.		
Notes on, by Miller.....	263-267	A xiv	Natural gas in, depth and pressure.	155	i
Muchimanitounek bay, KESAGAMI LAKE, NIP.....	148	A xiii	Munktell's mechanical works, ESKILSTUNA, SWEDEN.....	199	xii
Muckle, William.....	126	i	Munro, Henry		
Muckwabi, NIPissing TP., P.S.D.			Notes by, Lily of the Valley mine.	241	ii
Limestone on.....	94	B xiii			

	Page.	Vol.		Page.	Vol.
Munro, John M.			Murray, Alexander—Con.		
Gold mining by, near Dryden...	77	vii	References to surveys in :—		
	42, 73	viii	Bruce Mines dist.....	17	R C
See also Golden Whale			Goulais Bay region.....	157	viii
mine.			Great Lakes, The.....	70	i
Munroe, R. and Son.....	120	ii	Hastings dist.....	244	viii
Munsell, Eugene & Co.			Lacloche mtns.....	63	ii
Mica works of, Ottawa.....	291	xi	Manitoulin island.....	75	B xiii
	131	xii	Mississagi river.....	39	iii
	86	A xiv		148	viii
	105	A xv		169, 170	xii
	91	A xvi	Nipissing dist.....	68, 72, 82	i
Munslow mica mine, N. BURGESS			Nipissing lake.....	63	ii
TP., LANARK CO.			Parry Sound dist.....	92	B xiii
Notes on, 1901.....	289, 290	xi	Sudbury dist.....	171	i
Murchison, Sir Robert				137	vii
Silurian system named by.....	40	R C	Report by, on iron ores of Hast-		
Views of, re origin of iron ores...	52	ii	ings dist.....	36-39	ii
<i>Murchisonia desiderata.</i>			Thickness of Huronian N. of L.		
Kwataboahagan river.....	187	A xiii	Huron given by.....	195	v
Murdoch, James.....	39, 41	A xiii	Anthony	218, 222	i
Murdock, William			Hewson		
Evidence by, before R. C. re :—			Evidence by, before R. C.....	85	R C
customs mills.....	427	R C	President, Toronto Pressed Brick		
free trade.....	240	R C	Co.....	103	i
gold, L. of the Woods.....	64	R C	Huson T.	138	x
iron, Loon lake.....	144	R C		73	xi
ref. to.....	65	ii	I.	143	x
mining laws.....	427	R C	Sir John See Murray and		
natural gas, Silver islet.....	153	R C	Renard.		
silver, Edwards island.....	202	R C	N. H.	143	x
Surveying by, near Jackfish.....	266	vi	Sir Patrick.	218, 222	i
Muriatic acid.			Reginald A. F.	165	iii
Iron pyrites for making.....	256	v	Robert		
Murillo silver mine, OLIVER TP.,			Manager, Ely iron mine.....	71	xi
TH. B. D.			Mining by, Michipicoten div....	139	x
Idle, 1891.....	239	ii		47	xii
Notes on, 1890.....	226	i		320	A xiv
station, OLIVER TP., TH. B. D.			T. H.	117	ix
Magnetite near.....	299	xii		143	x
Murphy, J.	143	x	Thomas		
J. E.	108	ix	Sandstone quarrying by, near		
	154	A xiv	Inglewood.....	110	ix
John			W. P.	117	ix
Limestone quarry of, Brockville.				143	x
	72, 73	B xiii		74	xi
tp., ALG.			and Renard.		
Soil in, notes on.....	133	A xiii	Notes by, on origin of glauconite.	165	A xv
Timber in.....	219, 220	A xiv	Bay, CHARLEVOIX CO., QUE.		
Murray, Alexander			Marine deposits at.....	216	x
Biography of, by Bell.....	218-222	i	gold mine, MARMORA TP.,		
Map by, Huronian areas, ref. to.			HASTINGS CO.....	197	xi
	122, 157, 158	vii	nickel mine, McKIM TP., NIP.		
	182, 203	ix	Accidents at.....	167, 176	iii
York Branch river.....	219	viii		201, 214	iv
Nickel discovered by, Sudbury			Boring in, with Govt. drill.....	83	x
dist.....	243, 286	xii	Deposits of, connected with Elsie		
	3, 134	C xiv	deposits.....	20	C xiv
Notes by, on :—			Discovery and nomenclature..	88, 89	i
iron ore, Bastard tp.....	319	R C		235, 284, 286	xii
L. Nipissing.....	87, 88	i		3, 134	C xiv
Rideau canal.....	35	ii	Geology and plans of.....	251-254	xii
limestone, Panache lake....	82, 83	i	Hypersthene of.....	18	C xiv
	29	B xiii	Iron in, ilmenite.....	281	xii
Wanapitei lake.....	83	B xiii		162	C xiv
nickel deposits of Sudbury..	88, 89	i	marcasite.....	281	xii
Nipissing dist.....	83	B xiii	pyrites.....	158	C xiv

	Page.	Vol.
Murray nickel mine.—Con.		
Matte from, analysis and character	283	xii
	152	c xiv
Notes on, 1891	231	i
1892	246	ii
1893	186-189	iii
1894	247, 248	iv
1895 (idle)	273	v
1898	93	vii
Ores of, notes by Stelzner...	278, 279	xii
	17	c xiv
percentage of nickel and copper in	90	i
	153	c xiv
percentage of gold and silver in	153	c xiv
Production of	156	c xiv
Railway to	136	c xiv
Rocks in and near :—		
diabase	297	xii
analysis	126	c xiv
dikes	85	c xiv
with nickel oxide	298	xii
granite	9, 14, 57, 58, 81, 83	c xiv
photo	54	c xiv
malchite masses	76	c xiv
nickel-bearing	11	c xiv
norite	293	xii
	214	A xiii
	114	c xiv
analysis	120	c xiv
cut by granite	124	c xiv
petrography	108-111	c xiv
notes by Bell	433, 434	R C
Coleman	52-55	c xiv
section	204, 208	A xiii
Section of	53	c xiv
from, to Windy lake.. With		c xiv
ref to	8	c xiv
Sulphides of, notes by Walker...	280	xii
percentage of	151	c xiv
Worked by Sir H. Vivian	177	c xiv
notes	141, 142	c xiv
quarry, NEAR L'ORIGNAL,		
PRESCOTT CO.		
Black River limestone in	98	B xiii
Murraysville, WESTMORELAND CO.,		
PA.		
Natural gas at	148	i
Muscovite (WHITE MICA).		
Analysis of	83	A xiv
Composition and description of ..	226	vi
Determination of	227	vi
Occurrences of. <i>See</i> Mica.		
Museums.		
New South Wales, establishment		
of	289	R C
Uses of	411, 412	R C
Mushet, David		
Calculation by, <i>re</i> Heath's cast-		
steel process	363	R C
Robert F.		
Process of, for steel-making ..	364, 367	R C
ref. to	xxi	R C
Muskalunga lake, S. OF LAC SEUL,		
R. R. D.		
Gold on, trace	62	v

	Page.	Vol.
Muskeg AND Swamp.		
Abitibi dist.	105-113	A xiii
	196-205	A xiv
	125, 126	A xv
Black river	185-187	xii
Gypsum mt.	158	A xiii
percentage	219-235	A xiv
Albany River dist	111	iv
Blanche River dist	177-183	xii
Cumberland tp.	108	B xiii
Grande Presqu'île, L. of the		
Woods	120	vii
James bay, south of	190-193	viii
Kenogami valley	112	iv
Kwataboahagan river	137, 146	A xiii
Larder Lake dist.	203	A xvi
Mattagami valley. 120-124, 131, 141-145		A xv
	188-191, 194	A xiv
Michipicoten div.	9	Bull. iii
	137	viii
Mississagi River dist	172	xii
Montreal River basin	173	vi
Muskego river, Alg	134	ix
Nipigon Lake region	212	x
	110, 126, 137	A xvi
Photo of, typical	218	A xiv
Rainy Lake dist	165	v
Sabawe lake, near	73	v
Savanne and vicinity	74	v
Soweska river	146	A xiii
Speight's meridian line, E. of L.		
Superior	199, 201, 202	viii
Steep-rock lake, near	146	xi
Sudbury dist.	37, 73	c xiv
Vermilion river	202	A xiii
Muskego (MUSKOGOGAMA) lake AND		
river, N. E. OF BISCOTASING		
LAKE, ALG.		
Beach on, altitude	103	c xiv
Description of, by Kerr	122	A xv
Minor ref. to	185	x
Notes on, by Parks	126	ix
Soil near, agricultural ..	121	A xv
sand and gravel ..	210, 211	x
Trees on and near	143, 144	A xv
river, N.E. OF PISHKANOGAMA		
LAKE, ALG.		
Peat bogs on	134	ix
Muskegogema. <i>See</i> Muskego.		
Muskoka Beaver Mg. Co.		
Capital and date of charter	9	viii
dist.		
Limestone in, notes by Miller ..	81	B xiii
Gold Mg. and Development		
Co.		
Capital and date of charter	9	viii
river, MUSKOKA DIST.		
Allanite on. <i>See</i> Hollow lake.		
"Blotched" diorite on	94	B xiii
Waterpower on	252	vii
	14	A xv
Muskrat.		
Abitibi dist.	193	viii
	127, 189	A xiii
	242	A xiv
Mattagami valley	131	A xv
lake, MICHIPICOTEN DIV., ALG.		
Description of	293	A xiv
Minor ref. to	285	A xiv

	Page.	Vol.		Page.	Vol.
Muskrat lake, MUSKRAT RIVER, OTTAWA RIVER.			Nairn tp., ALG.		
Trenton formation on.....	104	B xiii	Nickel ore in, assay of.....	145	C xiv
Musquash, St. JOHN CO., N. B.			Rocks in, clay-slates.....	73	C i
Moss litter made at	199	ii	gabbro.....	75	C xiv
	191	vi	hydro-mica schists....	81	C i
Moss Litter Co.			Namainse. See Mainainse.		
Operations of.....	199	ii	Namakan river, R. R. D.		
Musquataysee river. See Turtle river, Turtle lake.			Explorations in region of, notes by Blue	136-140	v
Mutton, S. S.			Namannitigong river, L. NIPISSING, P. S. D.		
Evidence by, before R. C	86	R C	Limestone near	94	B xiii
Mutual Natural Gas Co.			Nan Ki Poo gold mine, SHOAL LAKE, L. OF THE WOODS.....	50	vii
Capital and date of charter.....	9	xii	Gold Mg. Co.		
Notes on, 1890.....	131	i	Capital and date of charter	11	vii
Operating, 1904.....	91	A xiv	Nancy Helen Mines, Ltd.		
1906.....	24	A xvi	Capital and date of charter.....	30	A xvi
Wells of, number.....	44	xi	Nantyglo, MONMOUTHSHIRE, ENGLAND.	36	i
Mya.			Napanee, RICHMOND TP., LENNOX CO.		
Abitibi river.....	189	viii	Altitude of	222	x
" <i>arenaria</i>			Brick-yard at, notes on.....	77	B xv
James bay.....	143	A xiii	Cement at	177	i
Saxicava sand.....	32	B xv	tests on.....	77	R C
" <i>truncata</i>			works	109	i
Missinaibi river.....	162	A xiii		136	A xiv
Saxicava sand.....	32	B xv	<i>See also</i> Rathbun Co.		
Myers, Alexander			Limestone at and near:—		
Quarrying by, Caledon tp.....	99	i	analysis	28	B xiii
J.	104	viii	Black River formation.....	27	B xiii
M. A.	98	x	for building	85	R C
	237	xi	quarry	28	B xiii
	91, 96	xii	notes by Rathbun	84, 85	R C
	72	A xiii	Stratified deposits near	241	A xiii
Cave, BARRIE TP., FRONTENAC CO.			Napawquazi lake, MATTAGAMI RIVER, ALG.		
Gold mining near. <i>See</i> Star of the East mine.-			Terraces on.....	181	x
Rocks at and near.....	202	xi	Napkins.		
Silver at, reported.....	220	v	Made of hornblende	95, 96	iii
Myles, P.	104	viii	Naptha.		
<i>Myrica asplenifolia.</i>			As a by-product of petroleum...	158, 162, 163	R C
Abitibi Lake dist.....	241	A xiv	Romney tp.....	96	A xvi
Mattagami valley.....	150	A xv	Definition of.....	538	R C
Myrick, E. B.	66	xii	From peat.....	210	i
<i>Myriophyllum verticillaris.</i>			Napthalene.		
Mattagami valley.....	150	A xv	Composition of.....	33	v
Myrtle, WHITBY TP., ONTARIO CO.			Narrow bay (Baie Fine), GEORGIAN BAY, L. HURON.		
Stratified deposits at, altitude....	223	x	Copper ore on.....	91	i
<i>Mytilarca.</i>			lake, MICHIPICOTEN DIV., ALG.		
Kwataboahegan river.....	188	A xiii	Rocks on and near.....	113	A xiii
<i>Mytilus edulis.</i>				314, 338	A xiv
Finch	217	x	Iron formation.....	326	A xiv
Nepean tp.....	216, 224	x	lake, NEAR PIPESTONE LAKE, R. R. D.		
Nabopolasser, KING OF BABYLON.	166	i	Keewatin on.....	61	iv
Nacozari, MEXICO	228, 229	xii	Narwhal.		
Nagyagjte.			Hudson bay and strait.....	133	iv
Huronian mine, Moss tp.....	106	v	Nasbonsing. See Astorville.		
	205	ix	Nasi, Gusta	39, 41	A xiii
Nail and tack factories.			Nasmith, G. G.		
Statistics, 1881	116	ii	Analysis by, of tinguaité.....	189	ix
Nails.			Nasmyth, James		
Canadian imports, 1881-87 ..	247, 252	R C	Steam hammer of, ref. to... xxi, 366		R C
from U.S., 1887.....	468	R C			
Nairn Centre (late Nelsonville), NAIRN TP., ALG.					
Gabbro near.....	78	C xiv			
Pyrrhotite near	145	C xiv			
19 M. I.					

	Page.	Vol.
Nassagawega tp., HALTON CO.		
Brick clay at <i>See</i> Campbellville.		
Lime from, analysis.....	59 B	xiii
Limestone in, dolomite.....	58 B	xiii
fossiliferous.....	57 B	xiii
quarry. <i>See</i> Kelso.		
Ochre in	205	ix
<i>Nasturtium officinale.</i>		
Abitibi Lake dist.....	241 A	xiv
Mattagami valley	150 A	xv
<i>palustre.</i>		
Mattagami valley	151 A	xv
Natal, S. AFRICA.		
Mineral lands in, ownership....	43	i
<i>Natica affinis.</i>		
Ottawa	224	x
<i>clausa.</i>		
James bay.....	143 A	xiii
Nation (or Petite Nation) river,		
PRESCOTT CO.		
Cambro-Silurian limestones cn. 40,	47 B	xiii
quarrying on.....	99 B	xiii
Trenton	98	xi
Gravel deposits near	218	x
National Cobalt Silver Mg. Co.		
Capital and date of charter	30 A	xvi
copper mine, ONTONAGAN		
REGION, U.S.....	85	iii
Corundum Wheel Co.		
Corundum prospecting by, Mont-		
eagle tp.....	99 A	xv
gold mine, THREE HUNDRED		
LAKE, MANITOU DIST., R.R.D.	92	xii
	69 A	xiii
Iron and Nickel Corp'n.		
Capital and date of charter	37 A	xiii
iron mine, GLAMORGAN TP.,		
HALIBURTON CO.....	132	R C
Mica Grinding Co.		
Work by, 1901.....	292	xi
suspended, 1902.....	132	xii
Mines Investment Co.		
Capital and date of charter	10	ix
Mg. and Development Co.		
Capital and date of charter	30 A	xvi
Oil Co.		
Work by, 1895, notes on.....	26, 27	v
Oil Works.		
Operating, 1907	17	vii
Petroleum Co.		
Capital and date of charter	9	xii
Portland Cement Co.		
Analysis of clay and marl used		
by	183 A	xiv
Notes on, 1901	33	xi
1902.....	31, 32, 35	xii
1905.....	149-152 A	xiv
Operating, 1903	17 A	xiii
1905.....	17 A	xv
1906.....	20 A	xvi
Plant of, notes.....	18 B	xiii
photos.....	150-153 A	xiv
	114 B	xv
Tube Works, NEAR PITTSBURG,		
U.S.		
Labour employed by, statistics..	370	R C
Output of, 1893	119	ii
Native 7 Silver Mg. Co.		
Capital and date of charter	11	vii

Natrolite.

L. Superior amygdaloids	205	ix
-------------------------------	-----	----

Nattress, Rev. Thomas

Notes by, on limestones of Essex		
co.....	41, 42 B	xiii
Paper by, on Corniferous ex-		
posure in Anderdon tp....	123-127	xi
refs. to	7	xi
	153	xii

Natural cement.

Limestone in manufacture of,		
analyses.....	15, 16 B	xiii
Mortar from, compared with that		
from Portland cement	163 A	xiv
Notes on, by Gillespie.....	162-166 A	xiv
Miller.....	15, 16 B	xiii
Occurrences of. <i>See</i> Cement.		

gas.

As substitute for coal.....	391	R C
	196	ii
Association of, with oil.....	26	iv
Distribution of.....	178	i
Economic value of	157-160	i
for glass-making	159	i
lime-burning	126	i
Evidence <i>re</i> , before R. C.....	151-153	R C
Exhaustion of, certain.....	158	i
Export of, law against.....	21	x
notes by Stiff.....	42, 43	xi
From peat.....	230	xii
plant for making, cost.....	231	xii
diagrams... ..	109	xi
From sawdust	393	R C
Industry of, 1895.....	28	v
1899.....	105, 106	ix
Moisture in, method of elimin-		
ating	106	ix
Mount Pelee disaster caused by..	93 A	xiv
Origin of	152	R C
	164	vi
	91-95 A	xiv
various views	140-152	i
Paper on, by Blue	115-164	i
Stiff... ..	41-45	xii
Quebec prov., Montreal reg....	196	ii
notes by Hunt.....	126	i
Rates for, to consumers.....		
	120, 130, 131, 134, 135	i
Report on, by Corkill.....	88-117 A	xiv
Coste	108-115 A	xv
Rock pressure of.....	96 A	xiv
Salt water in, paper on	152-154	i
Statistics of, 1892.....	10, 11	ii
1893.....	9, 10	iii
1894.....	11	iv
1895.....	11, 28	v
1896.....	13, 24	vi
1897.....	15, 19	vii
1898.....	11, 14, 17	viii
1899.....	11, 12, 17	ix
1900.....	11, 12, 18	x
1901.....	13	xi
1902.....	12, 13, 38, 39	xii
1903.....	3, 4, 22 A	xiii
1904.....	1, 3, 21 A	xiv
1905.....	1, 23, 108 A	xv
1906.....	4, 6, 24, 25 A	xvi
Taxation of companies selling...	41	xi

	Page.	Vol.		Page.	Vol.
Natural gas.—Con.			Navy, The British		
United States	151, 152	R C	Nickel-steel for. <i>See</i> British Admiralty.		
Indiana, compared to Kent co.	99	A xvi	Neal, Thomas.....	43, 48	xii
Ohio	115-117, 120-122	i	Bros.		
production, 1888	525	R C	Iron and steel output of, 1893...	118	ii
Wasting of, act to prevent..	163, 164	i	Near, Edward B.		
<hr/>			Gas well of, notes on.....	130	i
Brant co., Brantford (near).....	25	A xiii	Neary, A.....	49	A xiii
Bruce co., Amabel tp.....	21	x	Nease, McLain and McGinnis.....	119	ii
Hepworth, logs	45	xi	Nebuchadnezzar, King.....	166	i
Bubbling Water, Missinaibi river.	128	iv	Needing tp., TH. B. D.		
Carleton co., Gloucester tp.....	58	xi	Course of silver veins in	33	R C
Copper Cliff mine.....	260	xii	Marcasite in.....	203	ix
Essex co., Clinton formation....	4	i	Neebish gold mine, Moss tp., TH. B. D.		
Gosfield S. tp.....	42	R C	Evidence <i>re</i> , before R. C.....	62	R C
Mersea tp.....	26	A xiii	Notes on, by Plummer	78	v
Leamington.....	25, 27	vii	Mining Co.		
notes, 1900.....	19, 20	x	Capital and date of charter.....	11	vii
by Stiff.....	42	xi	Needle pt., L. OF THE WOODS, R. R. D.	173	v
occurrences.....	115	i	Needles.		
Haldimand co.....	4	i	Canadian imports of, 1881-87....	252	R C
Caledonia.....	252	iv	Prices of, per ton	354	R C
notes by Walker	283	v	Neeland rapid, FREDERICK HOUSE RIVER, ALG.		
Kent co., compared to that in Ohio	281	vi	Character of river near	186	A xiv
in drift.....	99	A xvi	Rocks at.....	210	A xiv
map showing wells.....	123	i	mica-schist.....	198	A xiv
in drift.....	93	A xvi	Soil from, analysis.....	246, 247	A xiv
report by Knight.....	123	i	Timber near	196	A xiv
ref. to.....	92-104	A xvi	Neelands, E. V.		
Romney and Tilbury tps.	21	A xvi	Acknowledgments to	196	viii
Manitoulin island	25	A xvi	Asst. Superintendent, Massey		
Niagara pen.....	140	i	Station mine.....	34	A xv
Port Arthur silver mines.....	128	i	Petrography of dolomite found by.	210	x
Port Arthur silver mines.....	54, 58	B xiv	Work by, 1897	161, 169	vii
Silver Islet mine	35, 153	R C	Neelon tp., NIP.		
Welland co.....	4	i	Farm land in.....	106	c xiv
analysis	106	ix	Gold in.....	114	R C
notes, 1900	20, 21	x	Rocks in, greywacké	89	c xiv
by Stiff.....	44	xi	Neepawa Gold Mining Co.		
Port Colborne.....	35	xi	<i>See also</i> Royal Sovereign mine.		
York co., Toronto, near	4, 138	i	Capital and date of charter.....	11	vii
and Oil Co.			Work by, Manitou lakes, 35, 76, 122		vii
Amount paid by, to Treasury,				247	xi
1900.....	18	x	Neepawa island, MINNITAKI LAKE, R. R. D.		
Merged with United Gas & Oil Co.....	19	x	Gold mining on, 1898.....	71	viii
Notes on, by Blue.....	28, 29	v	Neff, N. C.....	66	ix
<i>See also</i> Ontario Natural Gas Co.			Negaunee, MICHIGAN, U. S.		
Naughton, GRAHAM TP., ALG.			Iron deposits near, notes by Coleman	150-152	ix
Farm land near.....	106	c xiv	Neil, Robert.....	46, 48	xii
Nickel found near, 1856	235	xii	lake, FRONTENAC CO.....	202	xi
Quartz mined near, for flux.....	64	A xvi	Neilson, Alexander.....	236	v
Nautilus.			James B.		
St. Marys, near.....	96	B xiii	Hot blast invented by..	320, 361, 366	R C
" (Ohioensis).			Nejef. See Meshed-Ali.		
St. Marys, near	152	xii	Nellany, M.....	98	x
Naxos island, THE CYCLADES, AEGEAN SEA.			Nelles, John A.		
Emery on.....	533	R C	Manager, Excelsior gypsum mine.	241	i
Naylor, E.				198	iii
Brick-yard of, Sterling.....	69	B xv		251	iv
J. L.....	41	A xiv		283	v
Navarino, Battle of	218	i		279	vi
Navigation.				100	vii
Hudson bay and straits	131, 132	iv			

	Page.	Vol.		Page.	Vol.
Nelson,—?			Net lake, TIMAGAMI DIST.,		
Gas on farm of, E. Tilbury tp....	100	A xvi	Arsenic on.....	179	x
Oil " " ..	96-98	A xvi	" "	101	A xiii
F. U.....	63	xii	mining	173	ix
J. D.....	143	x	23, 87	A xv	
	75	xi	plant	23	A xv
	66	xii	Copper mining on.....	173	ix
Peter			Glacial striae on, direction.....	178	ix
Gold mining by, near Jackfish...	81	vii	Gold mining on	173	ix
W. J.			notes by Coleman....	105, 106	xi
Copper mine of, Foley tp., notes			Iron ore near	201	x
by Coleman.....	168	ix	mining	170	x
Nelson, LORNE TP., NIP.			Pyrrhotite on, assay	180	x
Nickel prospecting near.....	233	i	carrying nickel..	174	x
lake, MANITOU LAKE DIST.,			mining	173	ix
R. R. D.			Rocks on	173	ix
Gold mining in.....	68	A xiii	263	A xiv	
river, HUDSON BAY.			Route to, from L. Timiskaming.	174	ix
Basin of, size	202	v	Netherlands, The. See Holland.		
Boulder on, photo	224, 225	A xiii	Netiticie, JAMES BAY.		
Mouth of, shallow	132	iv	Rocks at.....	142	A xiii
river, VERMILION RIVER, ALG.			"Nettle" H. M. S.		
Gravel plains and terraces on ...	106	c xiv	Tests on, as to nickel-steel ar-		
Minor ref. to	71	c xiv	mour.....	141	ii
Rocks in valley of.....	201	A xiii	Nettles, J.		
tp., HALTON CO.			Gold prospecting by, Seine River		
Limestone quarry in	104	i	dist.	73, 75	vi
Mineral pigments in.....	177	i	Nettogami lake, NETTOGAMI RIVER,		
Nelsonville. See Nairn Centre.			ALG	137	A xiii
Nematequin lake, MICHIPICOTEN DIV.			river, MOOSE RIVER, ALG.		
Rocks near	351	A xiv	Description of, by J. M. Bell.	137, 138	A xiii
<i>Nematus erichsonii.</i> See Saw fly,			Fossils from, Devonian	142	A xiii
larch			Photos of.....	144, 145	A xiii
Nepean tp., CARLETON CO.			Rocks on, Black-clay shales.....	161	A xiii
Fossils from.....	224	x	glacial age	143	A xiii
Limestone in, analysis	15, 16	B xiii	petrography.....	139-141	A xiii
Cambro-Silurian.	37	B xiii	Pre-Cambrian.....	138	A xiii
quarries.....	39	B xiii	Soil around, headwaters.	176	A xiii
Peat in	190	i	Neudeck, SAXONY.		
	198	ii	Glass works at	75	B xiv
Saxicava sand in	216	x	Neuhasen on the Rhine, BADEN,		
for building	227	x	GERMANY.		
Strontianite in	210	ix	Calcium carbide made at.....	34	v
Nepheline.			31	vi	
Craigmont.....	43	A xv	Neumann, Maier.	36	x
Kipawa river	163	x	Neustadtlein, SAXONY.		
Methuen tp.....	205	xi	Cobalt mining at.....	83, 86	B xiv
Notes on	227	vii	Nevada, U. S.		
Occurrences of	205	ix	Mining laws of, notes.....	282	R C
Photos of	216, 217	viii	Nickel in, mode of occurrence...	43	vi
Pic island, L. Superior.....	205	ix	Nevilles, Patrick	35	A xvi
	208	xi	New, Edward		
syenite. See Syenite, nephel-			Brick making by, Hamilton....	106	B xv
ine			Birmingham, CHEROKEE CO.,		
Nepigon. See Nipigon.			TEXAS.		
Mines Co.			Blast furnace at.....	101	ii
Capital and date of charter.....	30	A xvi	Brighton, BEAVER CO., PENN.		
"Neptune" s.s.	131	iv	Paving clay from, analysis.....	120	iii
<i>Nereis pelagica.</i>			Brunswick.		
Greens creek, near Ottawa.....	224	x	Albertite in, analysis	166	vi
Neresheimer, E. August.	22	x	production.	161	vi
Nesbitt, J. S.	191	R C	Cambrian in	31	R C
tp., ALG.			Coal in	196	ii
Soil and timber in.....	121, 136, 141	A xv	Iron exports, 1886.....	225	R C
Neshin lake, OPASATIKA RIVER, ALG.			Oil in, production, 1906.....	24	A xvi
Description of river near.....	136	A xiii	Peat in, moss litter from.....	199	ii
Remnant of a large lake	145	A xiii	Brunswick House (H.B.C.),		
Nestodjostone river, MATTAGAMI			MISSINAIBI RIVER.		
RIVER, ALG.....	114	iv	Agricultural land near.....	114	iv

	Page.	Vol.
New Caledonia.		
Cobalt ores of.....	103	A xiii
competing with Canadian.....	72	B xiv
notes by Miller.....	68-70	B xiv
production, 1896-1900.....	70	B xiv
1901.....	6	A xiii
1905.....	73	B xiv
Nickel ores of		
competing with Canadian.....	135	ii
discovery.....	161	ii
effect on prices.....	236	xii
effect on prices.....	388	R C
exhibit at World's Fair.....	191	iii
free from sulphur.....	145	ii
garnierite.....	193	ii
description.....	214	vi
description.....	149	ii
genthite.....	148	C xiv
mining, notes.....	373	R C
photos.....	223, 224	ix
notes by Charleton.....	178	iv
Glasser.....	147-150	C xiv
paper by Bain.....	213-216	ix
production, 1875-1902.....	157	C xiv
1901.....	6	A xiii
treatment.....	148, 151-153	ii
Peridotites in.....	154	C xiv
Carlow, CARLOW TP., HASTINGS		
co.		
Corundum mining and works in.....	19	A xv
<i>See also</i> Ashland Emery and		
Corundum Co.		
Ontario Corundum Co.		
Waterpower at. <i>See</i> Papineau		
creek.		
Chum gold. <i>See</i> Iron pyrites.		
Cumberland, HANCOCK CO.,		
W. VA.	112	iii
Glasgow, PICTOU CO., N.S.		
Steel making at.....	402	R C
Iron and Coal Co.		
Bounties to.....	28	ii
Golden Twins gold mine,		
CLEARWATER LAKE, SEINE		
RIVER DIST.		
Notes on, 1898.....	92	viii
(OR Upper) Green lake, S. E.		
ALGOMA	157, 167	xii
Hampshire, U. S.		
Batholithic gneiss in, pushing		
through mica-schist.....	159	vii
Mica mining in.....	91	A xiii
Hebrides.		
Labour from, for New Caledonia.....	149	ii
Jersey, U. S.		
Clays from, for sewer-pipes.....	86	R C
Corundum in.....	241-243	viii
Feldspar from Frontenac co. sent		
to, for pottery.....	21	A xvi
Geological Survey of, notes by		
Walker.....	421	R C
Iron ore in, cost of production...	10	i
origin.....	52	ii
royalties, 1879.....	12	i
treatment.....	89, 102	ii
Marl production, 1888.....	525	R C
Moraine in.....	123	ix
Oil in, flash test for.....	164	R C

New Klondike, The

	Page.	Vol.
Gold mining in, 1897. 77, 78, 123, 124		vii
1898.. 42, 72-75, 276		viii
1899.....	63, 64	ix
1900.....	90	x
1901.....	256	xi
Map of.....	79	vii
Liskeard, DYMOND TP., NIP.		
Brick-clay at and near.....	20	B xv
analysis.....	33	B xiv
26, 27		B xv
photo.....	33	B xiv
18, 19		B xv
yards, notes.....	83, 84	B xv
Iron ore near.....	12	A xiv
Mining class at....	40	A xiv
43		A xv
50, 54		A xvi

Liskeard and Northern Ontario Mining Co.

Capital and date of charter.....	26	A xv
Ontario, The		
Paper on, by Blue.....	191-211	v
Ontario Cobalt and Silver		
Mining Co.		
Exhibits of, at Buffalo.....	25	A xv
Work by, Coleman tp.....	80	A xv
Ontario Iron Co.		
Capital and date of charter.....	26	A xv
Ontario Mg. and Develop-		
ment Co.		
Capital and date of charter.....	11	vii
Ontario Ore Refining Co.		
Capital and date of charter... ..	26	A xv
Ontario (J B 7 OR TRETHEWEY)		
silver mine, COBALT.		
Bismuth from, analysis.....	22	B xiv
Mining class at, 1906.....	52	A xvi
Minor ref. to.....	15	B xiv
Notes and photos.....	74-76	A xv
Ore of, value.....	25	B xiv
Owner of ..	5	A xiv
Producing, 1905.....	7, 9	A xv
1906.....	8	A xvi
Specimens from, assay.....	17	B xiv
photo.....	18	B xiv
Tetrahedrite in.....	22	B xiv
Veins in, strike and photos....	27-31	B xiv
Post (H. B. C.), ABITIBI RIVER,		
ALG.		
Character of country near.....	144	A xiii
Elm (swamp) near.....	176	A xiii
Forest fires near.....	177	A xiii
Photo of.....	200, 201	viii
Red deer at.....	178	A xiii
Vegetables grown at.....	186	viii
Post brook. <i>See</i> Blue-water		
river.		
Red Sandstone.		
Definition of.....	538	R C
<i>See also</i> Permian.		
Rockland, MELBOURNE TP.,		
RICHMOND CO., QUE.		
Roofing slate in.....	87	R C
South Wales, AUSTRALIA.		
Arsenic used in, as an insecticide.		
115, 116		xi
Cobalt ores in.....	103	A xiii
70		B xiv

	Page.	Vol.		Page.	Vol.
New South Wales.—Con.			New York state.—Con.		
Mining laws of, notes by R. C.	289-291	R C	Natural gas in.....	151	R C
royalties in.. 23-25, 30, 31, 45		i		146	i
Platinum mining in.....	142, 143	vii	Oil in, flash test for.....	164	R C
Prospecting in, with diamond			Portage and Chemung formation		
drill.....	233	v	in.....	47	R C
	165	iii	Shales of, analyses.....	120	iii
System Brick Co.			Zealand.		
Capital and date of charter.....	30 A	xvi	Awaruite in.....	151 C	xiv
Toronto, TORONTO.			Mining classes in.....	216	v
Gas in, notes.....	138, 139	i	lands, ownership.....	44, 45	i
Woidoma, RUSSIA.			system of leasing..	8	i
Peat manufactured at.....	218	ij	laws.....	14	i
York, U. S.			notes by R. C. 286-289		R C
Brick pavement in.....	109	iii	schools in.....	417	R C
Freight rate from, to Cobalt....	5 A	xiv	description and his-		
Mining schools in.....	508	R C	tory.....	513-521	R C
Nickel steel exhibited in, 1853..	165 C	xiv	notes.....	213	i
York and Canadian Copper				221, 222	iv
Co.			scheme of, suggested		
Capital and date of charter.....	9	xii	for Ont.....	xxiii	R C
Tip-Top mine owned by.....	55 A	xiii	utility.....	216	iv
See also Tip-Top copper mine.			Weed killers in, analysis.....	115	xi
York and Canadian Mg. Co.			Newark, N. J.		
Capital and date of charter.....	28 A	xvi	Reduction works at.....	11 A	xvi
York and Lake Erie Oil and			Newberry, John S.		
Gas Co.			Prof. T. S.		
Capital and date of charter.....	37 A	xiii	Diagram by, of coal gradations..	164	vi
York and Ontario Gold Mg.			Views of, re origin of gas and oil.	142	i
Co.				95 A	xiv
Capital and date of charter.....	9	xii	Iroquois		
Gold mining by.....	239	xi	beach....		
York and Ontario Mg. Co.			Spencer B.		
Mica mining by, Loughboro tp.			Hydraulic index of.....	124 A	xiv
	89, 90 A	xvi	Notes by, on rock cement indus-		
York and Ontario Oil and			try.....	34	xi
Gas Co.				16 B	xiii
Capital and date of charter.....	28 A	xvi	Newboro, S. CROSBY TP., LEEDS CO.		
York Central Railroad.			See also Chaffey mine.		
Tests by, on peat as fuel.....	203	i	Chondrodite at.....	196	ix
York Cobalt Silver Mines.			Iron mining near.....	34	ii
Capital and date of charter.....	30 A	xvi	Newburgh, CAMDEN TP., ADDINGTON		
York iron mine, GLAMORGAN			CO.		
TP., HALIBURTON CO.			Analysis of limestone from.....	27 B	xiii
Iron ore from, cost of working..	388	R C	Newcastle, CLARKE TP., DURHAM CO.		
Notes on, by Pusey.....	132	R C	Iroquois beach near.....	230 A	xiii
York=Lake Erie Oil and Gas			Silurian formation near.....	24 B	xiii
Co.			Trenton.....	41	R C
Capital and date of charter.....	24 A	xiii	Utica.....	42	R C
York Oil Co.			Newell, A. W.		
Capital and date of charter.....	26 A	xv	Notes by, on the Pepper oil well.	23	vi
York state, U. S.			James.....	32, 35 A	xvi
Beaches in.....	233, 234, 242 A	xiii	Newett, Frank		
Brick pavements in cities of..	108, 109	iii			
Charcoal in, cost of.....	334	R C	Newfoundland.		
Corundum in.....	241, 242	viii	Cambrian in.....	31	R C
Geological Survey of, notes by			Pyrates deposit in.....	200 A	xvi
Walker.....	421	R C	Newington, OSNABRUCK TP., STOR-		
Guelph formation absent in.....	120 B	xiii	MONT CO.		
Iron ores of, method of concen-			Gravel near.....	218, 219, 227	x
tration.....	326, 327	xii	Peat bog at, analysis.....	203	xii
production, 1887..	468	R C	notes.....	219, 227	x
cost.....	10	i		208, 223	xii
royalties, 1879....	12	i		30 A	xiii
smelting.....	325	R C	photos.....	208	xii
Medina formation in.....	43	R C	Newlands, Lawrence		
Mining laws of, notes by R. C..	282	R C	diamond mine, W. GRIQUA-		
Moraine in.....	123	ix	LAND.		
				123	ix

	Page.	Vol.
Newman, W. T.		
Evidence by, before R. C. re:—		
iron, Nipissing dist.	142	R C
silver, L. Nipissing	204	R C
(OR GREAT MANITOU) island,		
L. NIPISSING.		
Length and position of.	84 B	xiii
Limestone on.	81 B	xiii
Newmarket, WHITECHURCH TP.,		
YORK CO.		
Artesian wells in.	58	i
tp., NIP.		
Clay concretions in.	205 A	xiv
Rocks in.	210 A	xiv
Soil in.	227 A	xiv
muskeg.	187, 196, 209 A	xiv
requires drainage.	207 A	xiv
Trees in.	227 A	xiv
Newnham, Mrs. J. A.	179 A	xiii
Very Rev. J. C. (BISHOP OF		
MOOSONEE)		
Acknowledgments to.	196	viii
Cathedral and house of, photo.	200, 201	viii
Diocese of, area.	135	iv
Efforts by, to help Indians.	179 A	xiii
Grant made to, by Govt.	134	iv
Minor ref. to.	129	iv
bay, KESAGAMI LAKE, NIP.		
Sand and gravels on.	148 A	xiii
Newport island, N. Y.		
Apatite in, associated with py-		
roxene.	437	i
Newsome, J. E.	82, 87	viii
	87	x
Newton, G. J.	117	ix
H. M.	81	viii
John Thompson	172	ii
Joseph	24	viii
Newtonville, CLARKE TP., DURHAM		
CO.		
Iroquois beach near.	239, 230 A	xiii
Peat prepared at.	197	ii
Ney, Marshal Michel	164	i
Niagara and Georgian Bay Mining		
and Development Co.		
Capital and date of charter.	9	x
Minor ref. to.	32	ix
escarpment.		
Brick-clay in.	101	i
Building-stone in.	95	i
Fossils from.	141-155	xii
Medina shale of, thickness.	177	i
Notes on, by Bell.	44	R C
Falls, MONTROSE TP., WELLAND		
CO.		
Beach at.	227 A	xiii
Boring at, with Calyx drill.	55	x
Brick-yard in, notes on.	104 B	xv
Calcite at.	195	ix
Limestone near, dolomite.	194	ii
sulphur in.	210	ix
Natural gas supplied to.	91, 104	A xiv
	108 A	xv
Origin of, date.	196	v
Post office at, building-stone of.	96	i
Sphalerite at.	209	ix
Travertine at, crystalline.	91 B	xiii

	Page.	Vol.
Niagara Falls, N. Y.		
Calcium carbide manufactured at.	37	v
	31	vi
falls, NIAGARA RIVER.		
Age of.	226	x
	237 A	xiii
Niagara formation on.	44	R C
Power from, for calcium carbide.	161	iv
notes.	38	v
plant, limestone for.	4 B	xiii
Falls Acetylene and Gas Ma-		
chine Co.	20	viii
Falls Co.		
Carborundum made by.	216	vii
	39	xi
Falls Gas, Fuel and Light Co.		
Notes on, 1890.	135, 136	i
Falls Power Co.		
Nickel steel used by, in plant.	190	iv
Notes on.	38	v
formation.		
Albany river, Kee.	31, 112 B	xiii
Cement in.	109, 110	i
Distribution and character, notes		
by Bell.	43, 44	R C
Findlay, Ohio.	120	i
Fossils of.	31 B	xiii
Gas in, various borings for.	130, 132, 136	i
Hudson bay.	85 B	xiii
Name of, proposed by Bell.	133	vi
Occurrences.	24 B	xiii
Position of, in Silurian.	2	R C
	133, 134	vi
Quebec prov., L. Timiskaming.	174	ix
photo.	49 B	xiv
Racine, Wis.	92	v
Section of, in oil-fields.	98 A	xiv
Thickness of.	24 B	xiii
in oil-fields.	98 A	xiv
Winnipeg River basin, Kee.	85 B	xiii
<hr/>		
Albany river.	31, 112 B	xiii
Bruce co.	36 B	xiii
Cockburn island.	79 B	xiii
Dufferin co.	39 B	xiii
Essex co., Comber, in borings.	156	R C
Grey co.	49, 50 B	xiii
Haldimand co., (aledonia.	252	iv
Halton co.	57, 58 B	xiii
Lincoln co.	73 B	xiii
Niagara tp.	163 A	xiv
Manitoulin island.	93	i
thickness.	73 A	xv
Nipissing dist.	84, 86 B	xiii
Cobalt dist., description.	41 B	xiv
Timiskaming lake.	204	v
Haileybury, analysis.	32 B	xiv
lithographic stone.	6 B	xiii
Peel co.	95 B	xiii
Credit Forks.	79	R C
Simcoe co.	109, 110 B	xiii
Welland co.	116 B	xiii
Welland canal, section.	98 A	xiv
Wellington co.	120 B	xiii
Wentworth co.	123, 125 B	xiii
Ancaster, notes by Parks.	141	xii
Western peninsula, extent.	125 B	xiii

	Page.	Vol.		Page.	Vol.
Niagara peninsula.			Nichols Chemical Co.		
Gas in, paper by Ashburner on probability of.....	160-162	i	<i>See also</i> American Madoc Mg. Co.		
Synclinal theory applied to oil and gas in.....	156	i	Pyrites mining by, Capelton, Que....	153	A xvi
Peninsula Power and Gas Co.			Darling tp.	153	A xvi
Operating in Crowland field	104	A xiv	Madoc tp..	295	xi
Quarry Co.				95	A xiii
Capital and date of charter.....	24	A xiii	plant of.....	79, 80	A xvi
river, ONT. AND U. S.			photos.....	158, 197, 198	A xvi
Beach near.....	233	A xiii	tests made by.....	177	R C
Bridge over, character of lime-stone for	14	A xiii	lake, MICHIPICOTEN DIV., ALG.		
Rocks on	42-46	R C	Greenstone on.....	302	A xiv
	25, 73, 116	B xiii	Minor ref to.....	285, 291	A xiv
cement rock	34	xi	Nicholson, C. F.	150	x
Stratified deposits on, notes by			Prof. H. Alleyne	181-190	A xiii
Coleman	227	A xiii	Isaac		
Waterpower of.....	252	vii	Sandstone quarrying by, Mono tp.	110	ix
River Navigation Co.			John	53, 57	xi
Mica boiler covering adopted by.	32	v	John T.	217	i
tp., LINCOLN CO.				8	B xiii
Beach in. <i>See</i> St. David.			Marshall	22	i
Cement works in	108	i	Nickel.		
<i>See also</i> Queenston.			Alloys of.....	373	R C
Limestone quarrying in	73	B xiii		182-184	iv
Nibs.			alluminium	217	vii
Steel used for, annual consump-tion	185	iv	notes.....	381-387	R C
Niccolite (NICKELINE OR NICKELITE).				159, 160	ii
Cobalt dist.....	xi, 99-101	A xiii	steel.....	384	R C
	12, 13	B xiv		9	i
	145	C xiv	for armour plate.....	45-47	vi
	23	A xv	notes by Blue.....	179-181	iv
analysis.....	19	B xiv	Jaques ..	194-198	iv
Gillies limit.....	9	A xvi	Roberts-Aus-		
Hudson tp.....	51	B xiv	ten	115	viii
Composition of.....	98	A xiii	Sperry ..	185-189	iv
Determination of.....	203, 213	vi	<i>See also</i> Nickel steel.		
Hardness of.....	202	vi	Ammunition coated with.	146, 147, 153	ii
Joachimsthal, Bohemia.....	61	B xiv	notes by Levat.....	160	ii
Michipicoten island.....	444	R C	British Columbia.....	145	C xiv
	194	ii	Lillooet.....	151	C xiv
	205	ix	Cheapening of, processes for....	23	iv
Pihuamo, Mexico	71	B xiv	Coinage of.....	373	R C
Port Arthur dist.....	55, 58	B xiv		145	ii
Three A mine.....	205	ix		164	C xiv
Schneeberg, Saxony.....	90	B xiv	composition.....	184	iv
Silver islet.....	205	ix	countries using..	161	ii
Specific gravity of.....	202	vi		224	ix
	20	B xiv	Germany.....	182	iv
Sudbury ores.....	194	ii	Description of.....	538	R C
	10, 11	B xiv	Discovery of, 1751.....	381	R C
Denison tp.....	205	ix	Distribution of, notes by Blue...	176	i
Gersdorffite m.....	192	ii	Merritt.		
Macdonell m.....	180	ii		88-90	R C
Worthington m.....	282	xii	Europe, Greenland.....	151	C xiv
	31, 142, 159	C xiv	Italy.....	151	C xiv
Nichol, William	52	iii	Norway, compared with		
	234, 235	iv	Canadian ...	283	xii
	58	vi	notes by Hen-		
tp., WELLINGTON CO.			riksen	178	iv
Guelph formation in.....	121	B xiii	percentage in		
Lime-kilns in. <i>See</i> Elora and			ores.....	154	C xiv
Fergus.			notes by Coleman..	146, 147	C xiv
Nicholas, John	205	iv	Exhibit of, at World's Fair.....	191	iii
Nichols, J. L.	225	i		106-128	
G. H. & Co. <i>See</i> next ref.			Extraction of, by Mond process,		
			methods	132-134	ii
			Future of, notes by Blue....	135, 136	ii
			Industry of, sketch by Bain..	213-224	ix
			<i>See also below.</i> Mining.		

	Page.	Vol.		Page.	Vol.
Nickel.—Con.			Nickel Corporation, Ltd.		
Michipicoten island.....	58	B xiv	Included in International Nickel Co.....	22	xi
notes.....	443, 444	R C		140	c xiv
Net lake, Timagami dist.....	173	ix			
	174	x	glance. See Gersdorffite.		
	145	c xiv	gymnite. See Genthite.		
Parry island, in pyrrhotite.....	261	viii	lake, BOWELL TP., NIP.		
	168	ix	Ore deposit of.....	275	xii
Port Arthursilver dist.....	57	B xiv	Rocks near, gossan.....	70	c xiv
McGregor tp.....	58	B xiv	lake, WATTEN TP., R. R. D.		
Three A mine... 28,	198	R C	Gold mining on.....	55	iv
Seeley Bay, in titaniferous ores..	230	vii	Iron ore on.....	134, 135,	143
Silver islet.....	52	B xiv		309	xii
Storrington tp.....	220	v	pyrites... ..	74	iv
Sudbury dist.....	129, 131	ii		207	ix
<i>See also</i> Northern nickel range.				296	xi
amount available, estimate..	153	ii		150	A xvi
copper with.....	22	A xvi	Notes by Coleman.....	175	A xvi
proportion.....	378	R C	Schists on.....	86	iv
discovery.....	122	iv	mt., N. OF SUDBURY, NIP.		
	134	c xiv	Rocks of, gabbro.....	294	xii
evidence before R. C. 59, 103-106		R C	petrography.....	206	x
Garson tp.....	39	A xvi	oxide.		
mining of. <i>See above.</i>			Sudbury dist., analysis.....	180	ii
notes by Bell.....	433, 434	R C	plating.		
	88, 89	i	Process of.....	158, 159	ii
Roberts-Austen. 106, 107		viii	silicate. <i>See</i> Genthite.		
Onaping (near), photo..	224, 225	A xiii	steel.		
origin of.....	277, 278	xii	For armour plate, ordnance, etc.		
production of, 1890-1902....	288	xii	Great Britain.....	110	ii
1890-1904....	154	c xiv	paper by Blue.....	14-144	ii
increasing... 56		A xvi	Jaques.....	139-141	ii
pyrrhotite with, percentage.	405	R C		194-198	iv
report by Coleman.....	235, 303	xii	Sperry.....	182-194	iv
		Pt. c xiv	United States, notes by Tracy.	136-138	ii
smelting of ores, notes by			Gamgee's experiments on, notes		
R. C.....	xxii	R C	by Ritchie.....	168	c xiv
treatment of ores.....	404, 405	R C	Notes by Coleman.....	164-166	c xiv
notes by Levat... 153-155		ii	Ontario's advantages for making.	111	ii
Wallace mine, L. Huron.....	24	R C	Qualities of.....	385	R C
	221	i	Torsion tests on, notes by Riley.	385	R C
	58	B xiv	Uses of, notes by Riley.....	386	R C
Wanapitei Lake dist.:—			sulphate. <i>See</i> Millerite.		
discovery.....	434	R C	vitriol. <i>See</i> Morenosite.		
Vermilion river.....	152	x	Nickeline or Nickelite. <i>See</i> Niccolite.		
arsenical <i>See</i> Niccolite.			Nickerson, R. B.	58	A xvi
bearing eruptive.			Nicol (INDIAN). <i>See</i> Mainville, Nicol		
Sudbury dist., notes by Coleman.			Prof. William		
Throughout c xiv			Analysis by, of tale from Grims-		
<i>See also</i> Sudbury dist. reports.			thorpe tp.....	101	iii
Belt Mining Co.			Dyscrasite and smaltite found by,		
Capital and date of charter.....	11	vii	Cobalt ores.....	98	A xiii
bloom. <i>See</i> Annabergite.			Experiments by, on corundum,		
carbonyl.			ref. to.....	246	vii
Notes on, by Roberts-Austen... 107		viii	Lecturer at Kingston Univer-		
Cliff mine, ARMOUR TP., P. S. D.			sity.....	215, 216	i
Boring in, for nickel-copper.....	44	A xiii	Notes by, on corundum crystals		
Notes on, 1901.....	286	xi	of Hastings dist.....	216, 217	vii
Copper Co.			Report by, on mineralogical dept.		
Capital and date of charter.....	10	ix	of Kingston Mg. School.....	261	vii
Exhibits of, at Pan-American Ex-			Report by (and Goodwin) on		
hibition.....	86,	90	Summer Mg. classes.....	282, 283	viii
Not included in International			Smaltite and pyrrargyrite from		
Nickel Co.....	22	xi	Cobalt measured and drawn		
Officers of.....	222	ix	by.....	14, 21	B xiv
Prospecting by, near Salter tp... 79		A xiii			

	Page.	Vol.		Page.	Vol.
Nichols, Henry H.			Nine = mile lake, NEAR STURGEON LAKE, TH. B. AND R. R. DIST.		
Evidence by, before R. C. re:—			Notes on, by Miller.....	87	xii
duty on mining machinery....	232	R C	Syenite on.....	104	xii
silver, Port Arthur dist.....	202	R C	Nineveh, ASSYRIA.		
technical education.....	427	R C	Notes on.....	166	i
want of railways.....	240	R C	Ninnia tp., HASTINGS CO.		
Niederpfannensteil, SAXONY.			Old name for Lake tp.....	15	ii
Cobalt works at.....	88	B xiv	Nino gold mine, TILLE LAKE, L. OF THE WOODS DIST.		
Nierling, J. J.	143	x	Notes on, 1902.....	95	xii
	80	xii	Work at, suspended.....	64	A xiii
Night-hawk lake, FREDERICK HOUSE RIVER.			Niobates. See Columbite.		
Boulders on, photo.....	128, 129	A xiii	Niobic acid.		
Climate of.....	184	vi	Lyndoch tp., in a columbite mineral.....	236	vii
Ducks on.....	193	viii	Nipigon, NIPIGON BAY, L. SUPERIOR.		
Glaciation on.....	115	A xiii	Iron ore from, at World's Fair..	82	ii
drift deposits.....	183	vi	sand at, attempt to mine...	73	A xiii
striae.....	181	vi	Route from, to L. Windigokan.	136, 137	A xvi
Gold on, notes by Miller.....	220	xvi	bay, L. SUPERIOR.		
Indians on.....	181	vi	Gold near.....	115	R C
photo of hut.....	128, 129	A xiii	Laccolithic sills on.....	256	A xiv
Insects on, injurious.....	128, 129	A xiii	Rocks on and near:—		
Jasper on.....	187	x	Animikie.....	18	R C
Moose around.....	127	A xiii	Huronian.....	124	iv
Notes on, by Kay.....	106, 107	A xiii	Nipigon formation.....	36-38, 67	R C
Parks.....	175, 176	viii	sandstone for quarrying.....	62	R C
Outlet of, northwards.....	181	vi	trap.....	15	v
Photo of.....	184, 185	viii	photo.....	112, 113	A xiii
Rocks near.....	121	A xiii	Silver on, notes by P. McKellar..	267	v
aqueous origin.....	116	A xiii	Zonochlorite from.....	194	ii
dolerite.....	116, 117	A xiii		212	ix
slate.....	106	A xiii	formation.		
Route to, from Mattagami river, description.....	129	ix	<i>See also Keweenawan formation.</i>		
	105-108	A xiii	Canada, thickness of.....	195	v
Size of.....	168	vi	Distribution and character, notes by Bell.....	36, 37	R C
Soil on and near.....	177	vi	Lake Superior.....	204	v
	192	viii	Mamainse pen.....	102	R C
	142	ix	Nipigon bay.....	62	R C
clay, photo.....	122, 133	A xiii	House, L. NIPIGON, TH. B. D.		
Storms on.....	128, 129	A xiii	Rocks in vicinity of.....	38	R C
Trees on and near.....	123	A xiii	lake, TH. B. D.		
	176	vi	Altitude of.....	202	v
	123-125	A xiii		105, 135	A xvi
Vegetables grown on.....	123	A xiii	Area of.....	111	iv
river, NIGHT-HAWK LAKE, NIP.			Copper prospecting on.....	115	A xvi
Camp near, photo.....	184, 185	viii	Country in vicinity, description.....	111, 112	iv
Glacial striae near.....	115	A xiii	Fall from, to L. Superior.....	109	iv
Notes on, by Kay.....	107, 108	A xiii	Fish of.....	110, 111	A xvi
Parks.....	175	viii	notes by Miller and Parks. 310, 311		xii
Trees on.....	124	A xiii	prospecting.....	24, 265	xi
Nijni, NOVGOROD PROV., RUSSIA.			report by Bain.....	212-214	x
Peat in.....	217	ii	Coleman.....	105-135	A xvi
Nikolsky, PETERSBURG PROV., RUSSIA.			Moore.....	136-148	A xvi
Peat at.....	217	ii	Italy.....	70	ii
Nile, The, EGYPT.			Indian encampment on, photo..	143	A xvi
Alluvial deposits of.....	107	iii	graves on, photo.....	146	A xvi
Nina (SCOVIL - MOORE) gold mine, STURGEON LAKE, L. OF THE WOODS.			Iron ore on and near.....	68	R C
Notes on, 1899.....	47	ix		15	A xv
1900, idle.....	75	x	map showing locations....	310, 312	xii
Mining Co.				108, 109	A xvi
Capital and date of charter.....	9	x	Marl on.....	37	R C
Notes on, 1900.....	76	x	Notes on, geological.....	111	B xiii
<i>See also Nina gold mine.</i>			Photos of. 110, 118, 125, 133, 139, 140		A xvi

	Page.	Vol.		Page.	Vol.
Nipigon lake, TH. B. D.—Con.			Nipissing lake, NIP.—Con.		
Rocks on, Animikie.....	115	A xvi	Rocks on, limestone.....	22, 94	B xiii
basic eruptive.....	122, 123	A xvi	crystalline.....	81	B xiii
Huronian.....	18	R C	notes by Barlow.....	83, 84	B xiii
	169	i	Silver in.....	204	R C
	124	iv	mine, COBALT, NIP.		
Keweenawan....	36-38, 67	R C	Accident at.....	34, 35	A xvi
trap.....	37	R C	Acreage of.....	7	A xv
Topography of.....	107, 110	A xvi	Cobalt in.....	11	A xv
river, L. SUPERIOR.			Notes on.....	79	A xv
Beaches on.....	105	A xvi	Option on, held by Guggenheims.	14	A xvi
Description of.....	107, 110, 136	A xvi	Photo of.....	Frontis.	B xiv
Marble on.....	233	R C	Mines Co.		
Minor ref. to.....	202	v	Capital and date of charter.....	24	A xiv
Photos of.....	106, 123, 128, 130	A xvi	Dividends paid by, 1906-7.....	13	A xvi
Rocks on, basic eruptive.....	133	A xvi	Minor ref. to.....	15	B xiv
diabase, photo.....	137	A xvi	Producing, 1905.....	7	A xv
Timber in vicinity of.....	111	iv	1906.....	8	A xvi
Water-power on.....	252	vii	Properties of.....	5	A xiv
Nipissing and James Bay Ry.			tp., P. S. D.		
Surveys by, N. of North Bay....	105	iv	Limestone in.....	94	B xiii
Character of country traversed			Nishikowgenda lake, E. OF MAT-		
by.....	136	iv	TAGAMI LAKE, ALG.		
beach, L. SUPERIOR.			Description of.....	182	x
Notes on, by Taylor.....	193	vii	Striae at, direction.....	211	x
Copper and Silver Co.			Nissen, P. Norman		
Capital and date of charter.....	28	A xvi	Acknowledgments to.....	60, 80	xii
dist.			Licence to.....	143	x
Cobalt in. <i>See</i> Cobalt dist.			Manager, Ely iron m.....	71	xi
Gold in. <i>See</i> Larder lake.			Grace gold m.....	68, 237	xi
Vermilion river.				139	x
Wanapitei lake.				64, 65, 78, 79	xii
Iron in, occurrences.....	317	xii		47	A xiii
ores of, report by Miller... 160-180		x	Hornblende Mg. Co... 114		ix
<i>See also</i> Boston and Hutton tps.			photo.....	80, 81	xii
Limestone in, notes by Miller... 81	B xiii		Nissen, Mrs. P. N.	54	xii
Maps of. <i>See</i> Maps			Niswanger, W. T.	87	x
Mica mining in.....	278	vi	Nith river, GRAND RIVER.		
Mining lands in, statistics of sales			Plaster mill on.....	114	i
and leases, 1891.....	7, 8	i	Nitro=glycerine.		
1892.....	6	ii	Sulphuric acid for.....	193	A xvi
1893.....	5, 6	iii	Niven, Alexander		
1894.....	10	iv	Acknowledgments to.....	169	vi
1895.....	9, 10	v		196	viii
1906.....	26	A xvi		142	ix
Nickel in. <i>See</i> Sudbury dist.			Base line of, 1899, report on by		
Population of unorganized por-			Parks.....	124-142	ix
tion, 1891.....	134	iv	Notes by, on northern Mississagi		
Pyrites in. <i>See</i> Timagami dist.			dist.....	168	xii
Reports on explorations in:—			Photo of, and party, on Montreal		
Abitibi dist. <i>See</i> Abitibi dist.			river.....	184, 185	viii
northern, J. M. Bell.....	135-179	A xiii	Refs. to surveys by, L. of the		
Timiskaming lake, northwards,			Woods dist....	42	A xvi
Miller.....	214-230	xi	Timiskaming dist.	58	R C
western. <i>See</i> Nipissing-Algoma				39, 40	A xvi
boundary line.			Work by, 1889.....	175	xii
Silver in. <i>See</i> Cobalt dist.			1890.....	165, 166	vii
=Algoma boundary line.			1896.....	167	vi
Maps of. <i>See</i> Maps			1897.....	161, 162	vii
Reports on, Burwash.....	167-177	vi	1902.....	5, 157, 161, 166	xii
Parks.....	175-196	viii	1905.....	116	A xv
lake, NIP.			Nivison, R. E.	86	A xiv
Agricultural land around.....	207	v	Nobbs, H.	105	xi
Altitude of.....	104	C xiv	Noble, John D.		
Drained by French river.....	201	v	Evidence by, before R. C.....	165	R C
Forest fires S. of (1871).....	206	v	Part owner, oil-refinery, Petrolea.	27	v
Gold mining on, 1892.....	237	ii	Noble, J. J.	287	xi
Iron on. <i>See</i> Iron island.			bay, RIDEAU CANAL.		
Peat north of.....	191	i	Mica mining on.....	130	xii
west of.....	209	ii			

	Page.	Vol.
Noel, J.....	104	viii
	117	ix
	143	x
No-fish bay, KABENUNG LAKE.		
Iron formation near.....	315, 329 A	xiv
Noisy river, L. SUPERIOR.		
Iron formation on.....	178 A	xv
river, SIMCOE CO.		
Calcareous tufa on.....	110 B	xiii
Marl on.....	51 B	xiii
Nolan, H.....	197	vii
creek, GRAND RIVER.....	198	iii
Nomenclature, geographical		
Abitibi.....	192	viii
Atikokan.....	72, 140	v
Baboon falls, Mississagi river ...	149	viii
Bella Donna lake.....	160	xii
Blacksmith rapid, Abitibi river.	189	viii
Blanche river, L. Timiskaming..	214	xi
Blue lake, Michipicoten div....	197	vii
Bruce and Wellington mines....	96	R C
Chaminiss hill.....	219	xi
Clay falls, Abitibi river.....	184	viii
Denison falls, Dog river.....	141	viii
Duck lake, near Shebandowan		
lake.....	118	v
El Diver gold mine.....	29	iii
Elbow lake, R. R. D.....	139	v
Fort Frances.....	40	iv
Fort William.....	198	v
Frenchmen rapid, Whitefish		
lake, Michipicoten div.....	190	vii
Goetz lake.....	158	ix
Kamanistikwia.....	198	v
Knickerbocker inlet, L. of the		
Woods.....	119	vii
Lake of Bays.....	167	vii
Logan mt., Que.....	220	i
Madawaska river.....	244	viii
Manitou Lake dist., after Dickens.		
	87, 88	vi
Manitou lake.....	52	v
Mosher bay.....	87	vi
Metchkewedenong.....	79 B	xiii
Miller island, L. of the Woods..	171	v
Miller lake.....	197	vii
Minitaki lake.....	56	v
Missinaibi.....	187	vii
Murray mine.....	284	xii
Obatonga lake.....	140	viii
Paint lake.....	161	ix
Petawawa river.....	220	i
Pic river, L. Superior.....	135	viii
Quaquaquitchwanook lake.....	179	viii
Scott lake.....	158	ix
Separation lake.....	112 A	xiii
Sesekinaka lake.....	181	xii
Shequamka river.....	191	vii
Spectacle lake.....	222	xi
Tomstown.....	54 A	xvi
Wawiatan rapid, Mattagami river.	127	ix
Waubamisk.....	280	v
Whiskey Jack lake.....	73	v
Windigoostigwan lake.....	138	v
Yellow-girl pt., L. of the Woods.	181	v
geological, etc.		
Animikie formation.....	31	R C
	133	vi
Anthraxolite.....	162	vi

	Page.	Vol.
Nomenclature, geological, etc.—Con.		
Artemisia gravel.....	51	R C
Black River formation.....	41	R C
Blueite.....	169	ii
Cambrian.....	31	R C
Chazy.....	41	R C
Corniferous.....	46	R C
	25 B	xiii
Corundum.....	230	vii
emery.....	533	R C
Devonian.....	46	R C
Folgerite.....	168	ii
Formations and systems, notes..	4	R C
Graphic granite.....	535	R C
Guelph formation.....	44	R C
Hamilton formation.....	4, 47	R C
	25 B	xiii
Hudson River formation.....	43	R C
Huronian.....	18, 535	R C
Keewatin formation.....	19	R C
Labradorite.....	225	vi
Medina formation.....	43	R C
Nipigon (Keweenawan) forma-		
tion.....	133	vi
Onondaga formation.....	45	R C
Perthite.....	188	ii
Portland cement.....	16 B	xiii
Potsdam formation.....	39	R C
Pre-Cambrian, report of the In-		
ternational Committee.....	269-277 A	xiv
Silurian.....	40	R C
Sperryllite.....	181	R C
Syenite.....	543	R C
Utica formation.....	42	R C
Whartonite.....	170	ii
Wilsonite.....	188	ii
	242	viii
Nonesuch gold mine, SRUNK ISLAND,		
L. OF THE WOODS, R. R. D.		
Notes on, 1896.....	48, 252	vi
sandstone.....	83, 84, 87	iii
<i>Nonionina.</i>		
Ottawa.....	225	x
Nonwatin (CALM) lake, SEINE RIVER,		
TH. B. D.		
Description of.....	68, 69	v
Glacial striae on.....	89	v
Gold mining near.....	5 Bull. i	
	79	vi
	76	ix
Iron ore near.....	135	xi
	311	xii
Notes on, by Blue.....	150, 151	v
Noorland prov., SWEDEN.		
Peat in.....	219	ii
Nora gold mine, WESTERN PEN., L.		
OF THE WOODS, R. R. D.		
Depth of, 1900.....	35	ix
Notes on, 1899.....	60	ix
Norberg, SWEDEN.		
Iron ores of.....	348	R C
Norburg—?	194	R C
Nordenskiöld, Baron A.		
Ref. to surveys by, in Greenland.	151 c	xiv
Nordensten, E.		
Ref. to work by, on iron ore con-		
centration.....	338	xii

	Page.	Vol.		Page.	Vol.
Norfolk, Duke of	22, 247	i	North American Cobalt Refining Co.		
co., ONT.			Capital and date of charter.....	30 A	xvi
Iron ore in, early working.....	255	R C	Reduction works at Hamilton		
.....	113	i	proposed by	12 A	xvi
Limestone in, notes by Miller...	88 B	xiii	American Stove and Asbestos		
Corniferous and Hamilton....	25 B	xiii	Co.		
Norite.			Work by, Marimora tp.	97, 137	iii
Parham, micro-photo.....	216, 217	viii	Baltimore, Wood co., OHIO.		
Sudbury dist.....			Cincinnati arch near	116	i
240, 242, 256, 273, 293, 294, 298		xii	Bay, WIDDIFIELD TP., NIP.		
11, 18, 61, 75-82 c		xiv	Agricultural land near.....	104	iv
analysis	116, 117 c	xiv	Brick clay in, analysis.....	27 B	xv
Elsie mine (near), photo.....	79 c	xiv	Saugeen.....	20, 21 B	xv
laccolithic.....	121, 122 c	xiv	yards, notes.....	83 B	xv
Lady Macdonald lake	41 c	xiv	Country north of, character..	57, 58	R C
Northern Nickel range ...	194, 196 A	xiii	Railway from to L. Timiskaming.	179	x
Onaping river, petrography...	211 A	xiii	Reduction plant at.....	12 A	xvi
photo.....	208, 209 A	xiii	Bay Brick and Tile Co.		
petrography	294	xii	Capital and date of charter.....	28 A	xvi
.....	107-121 c	xiv	Bluff silver mine, PORT AR-		
weathering of, photo.....	80 c	xiv	THUR DIST., TH. B. D.		
Normal School, SOUTH KENSINGTON,			Controlled by Algoma Mg. Co. ...	96	xii
ENG.			brook, CLEAR LAKE, METHUEN		
Notes on, by R. C.....	492	R C	TP., PETERBORO CO.		
Norman, Andrew			Rocks in vicinity of.....	213, 214	viii
Gold prospecting by, Jaffray tp.	186	v	Burgess tp. See Burgess tps.		
.....	108	vi	Carolina, U. S.		
Joseph Van. See Van Norman,			Corundum in.....	62	vi
Joseph			.....	213, 225	vii
Norman, NEAR KENORA, R.R.D.			discovery.....	242	viii
Historical notes.....	169	v	notes.....	19	ix
Reduction works at.....	98, 99	viii	price, 1897.....	218	vii
uncompleted.....	88	ix	production, 1901.....	39	x
tp., NIP.			prospecting.....	237	viii
Nickel mining in. <i>See</i> Whistle m.			tests	238, 239	viii
Rocks in.....	274	xii	Nickel ores in	146 c	xiv
greenstone.....	206	x	Platinum in	142	vii
magnetite, jaspery	186	x	Cayuga tp. See Cayuga tp. N.		
nickel-bearing	284	xi	channel, L. HURON.		
.....	273, 276	xii	Building-stone on.....	93	i
notes by Culbert..	202-204 A	xiii	Emsley tp. See Emsley tps.		
.....	73 c	xiv	lake, NEAR GUNFLINT LAKE,		
<i>See also</i> Wanapitei lake.			TH. B. D.		
Normandale, CHARLOTTEVILLE TP.,			Iron ore on	66	ii
NORFOLK CO.			notes by Sedgwick.....	126, 127	R C
<i>See also</i> Van Norman, Joseph			Map of (sketch)	126	R C
Charcoal furnace at, 1813.....	142	xi	Lake Mineral Land Co.		
Norrie and Ashland iron mine,			Capital and date of charter.....	11	vii
MICH.	238	i	Lee iron mine, NEAR TOWER,		
Norris, Daniel	102	R C	MINN.		
Edward			Notes on, by Merritt.....	125	R C
Evidence by, before R. C. <i>re</i> :—			London R'y, ENGLAND.		
copper, Mamainse pen.....	102	R C	Tests by, on peat as fuel.....	194	i
galena and silver, Batchawana			Moose river. See Missinaibi		
bay.....	203	R C	river.		
security of claims.....	309	R C	Ontario Reduction and Re-		
North America.			fining Co.		
Copper production, 1880-87.....	371	R C	Capital and date of charter.....	21 A	xvi
American Chemical Mining			Reduction plant of, Sturgeon		
and Mfg. Co.			Falls.....	12 A	xvi
Capital and date of charter.....	11	vii	pole.		
.....	156 A	xiv	Dip of large iron ore deposits to.	467	R C
Notes on, 1890.....	109, 110	i	Range Nickel and Iron Mg.		
Operating salt at Goderich.....	190	R C	Co.		
.....	111	ix	Capital and date of charter.....	28 A	xvi
.....	21 A	xv	river, WANAPITEI LAKE, NIP.		
<i>See also</i> Owen Sound Portland			Feldspathic quartzites on.....	72	i
Cement Co.			Sherbrooke tp. See Sher-		
			brooke tp. N.		

	Page.	Vol.		Page.	Vol.
North Shore Copper and Smelting Co.			Northern Lights gold mine, EAGLE LAKE, R. R. D.		
Capital and date of charter.....	37 A	xiii	Producing, 1905.....	4 A	xv
Concentration plant of, photo. 64,	65 A	xiii	<i>See also</i> next ref.		
shore lead mine, McTAVISH TP.			Lights Mines Co.		
<i>TP. See Enterprise mine.</i>			Capital and date of charter	9	xii
Shore Nickel and Copper Mg. Co.			Minor refs. to.....	4 A	xiv
Capital and date of charter.....	11	vii		43 A	xvi
Shore Reduction Co.			Work by, Eagle Lake dist.....	93	xii
Capital and date of charter.....	5	xii		5, 64, 65 A	xiii
Objects of ; work by, 1903....	73, 74 A	xiii		49 A	xiv
Star, OSNABRUCK TP., STORMONT CO.				54 A	xv
Gravel ridge near.....	218	x		59 A	xvi
Star apatite mine, PORTLAND TP., OTTAWA CO., QUE.			Pioneer island, L. of the Woods	48 A	xiv
Depth of, 1890.....	179	R C		54 A	xv
Pockets in, showing banded structure	441	R C	Nickel range, ALG.-NIP.		
Star Mg. and Development Co.			Map of.....	With vol.	xiii
Capital and date of charter.....	11	vii	Notes on, by Coleman	273-275	xii
Star (McCHARLES) nickel mine, SNIDER TP., ALG.			Report on "	192-221 A	xiii
Acquired and worked by Mond Nickel Co.....	34, 72 A	xiv		62-75 C	xiv
	143 C	xiv	<i>See also</i> Sudbury dist.		
Notes on, 1903.....	86 A	xiii	Oil and Gas Co.		
1904.....	72 A	xiv	Boring by, Manitoulin island..	72, 73 A	xv
Photos of.....	208, 209 A	xiii	Ontario Consolidated Copper Co.		
open pit	36 C	xiv	Capital and date of charter.....	30 A	xvi
Production of, 1902	125	xii	Work by, 1906	41, 70 A	xvi
1904	10 A	xiv	Ontario Copper Mg. Co.		
Railway to	136 C	xiv	Capital and date of charter.....	30 A	xvi
Rocks of and near.....	81 C	xiv	Work by, 1905	69 A	xv
granite	83 C	xiv	Ontario (OR SHILTON) pyrites mine.		
granitoid gneiss.....	123 C	xiv	Minor ref. to	20 A	xv
norite	112 C	xiv	Notes on	61 A	xv
notes by Coleman	36, 37 C	xiv		61 A	xvi
West Gold Dredging Co.			Pyrites Co.		
Capital and date of charter.....	9	x	Capital and date of charter	31 A	xvi
Northampton Emery Wheel Co.	240	viii	Queen gold mine, NEAR WABIGOON, R. R. D.		
Northamptonshire, ENGLAND.			Notes on, 1897.....	77, 124	vii
Iron ores in, royalties on	18	i	1898.....	275, 276	viii
Northeast arm, LARDER LAKE, NIP.			Ore of, character.....	171	vii
Ancient valley.....	208 A	xvi	Northey Manufacturing Co.	197	vi
Camp on, photo.....	217 A	xvi	Northland Gold Co.		
Rocks on, dolomite.....	207 A	xvi	Capital and date of charter.....	10	ix
section	205 A	xvi	Mining Co.		
arm, TIMAGANI LAKE, NIP.			Capital and date of charter.....	28 A	xvi
Gneiss on.....	69	i	Pyrites mining by, Rib lake	21 A	xvi
Northern Development Co.			Northrup, W. A.		
Capital and date of charter.....	38 A	xiii	Tin salting by, 1872.....	138, 139	viii
Paymaster gold mine worked by.	54 A	xiv	Northumberland co., ENGLAND.		
	43, 58 A	xvi	Coal trade in	16	i
Exploration Co.			co., ONT.		
Capital and date of charter.....	26 A	xv	Iroquois beach in, notes by Coleman.....	230-232 A	xiii
Giant Mg. Co.			Limestone in, notes by Miller...	88 B	xiii
Capital and date of charter.....	9	viii	Northwest bay, RAINY LAKE, R. R. D.		
Gold Co.			Rocks on, granite	50	iv
Mill of, notes and photo	22-25	iii	Company, The		
Work by, L. of the Woods.....	232	ii	Historical notes	197, 198	v
	21, 22	iii	Post of, Rainy lake	162	v
	174-176	v	Ontario Mining and Development Co.		
Iron and Steel Co.			Capital and date of charter.....	10	ix
Capital and date of charter.....	24 A	xiii	" Northwestern " ss.	108	v

	Page.	Vol.		Page.	Vol.
Northwestern Ontario Exploration Co.			Nottawasaga tp., SIMCOE CO.		
Work by, in the New Klondike.	42, 73	viii	Cambro-Silurian in.....	39 B	xiii
Norton, A.			Limestone in.....	109 B	xiii
Brick-yard of, Bolton.....	89 B	xv	Niagara formation.....	49 B	xiii
Thomas			quarrying. <i>See</i> Duntroon.		
Brick-yard of, Carlton West....	107 B	xv	Lithographic stone in. <i>See</i> Col- lingwood.		
W. J.			Medina formation in.....	43	R C
Brick-yard of, Alliston, notes...	99 B	xv	Ochre in.....	205	ix
Norton Emery Wheel Co.	240	viii	Nottaway river, JAMES BAY, QUE.		
iron works, PLATTSBURGH, N. Y.			Timber in basin of.....	204	v
Charcoal as fuel for.....	481	R C	Noumea, NEW CALEDONIA.		
Norwalk Mining Co.			<i>See also</i> New Caledonia and Nickel.		
Capital and date of charter.....	30 A	xvi	Harbour of.....	150	ii
Norway.			Smelter at.....	151	ii
<i>See also</i> Scandinavia.			Noumeaite. See Garnierite.		
Apatite deposits of, character... 438		R C	Nova Scotia.		
origin.....	443	R C	Arsenical ores in.....	102	xi
Clèveite in.....	217	vi	Coke in, quality.....	104	ii
Cobalt in, notes.....	67 B	xiv	Gold in, discovery.....	115	R C
production, 1896-98... 70 B		xiv	mining, notes by Selwyn... 66, 67		R C
Gneiss in, for building.....	134	iii	Mining in, laws..... 271-273		R C
Iron ores of, character..... 138, 392		R C	rents, licences and		
smelting.....	325	R C	royalties..... 10, 11		i
pyrites in.....	192 A	xvi	statistics compulsory. 423		R C
Mining laws of..... 300, 301		R C	Silver Cobalt Mg. Co.		
Nickel ores of, analyses of matte. 154 c		xiv	Capital and date of charter.....	28	xvi
compared with			silver mine, COLEMAN		
Canadian..... 283		xii	TP., NIP.		
minerals in..... 154 c		xiv	Notes on, 1905.....	81 A	xv
platinum..... 162 c		xiv	Steel Co.		
notes by Bain.... 213		ix	Bounty payments to, 1900..... 32, 33		x
Henrik-			Novaculite.		
sen.. 178		iv	United States, production, 1888.. 525		R C
Stetzner. 17 c		xiv	Novgorod dep., RUSSIA.		
Peat in, industry..... 218, 219		ii	Miaskite in.....	213	vii
	196	xii	Nowell Gold Mg. Co. (ALASKA)....	353	R C
	32, 33 A	xiii	Noxos island, misprint for Naxos is-		
for stoves..... 227		xii	land.		
photo of bog..... Facing 192		xii	N T gold loc., NEAR SHOAL LAKE,		
Silver ores of, mode of occur-			NEW KLONDIKE DIST.		
rence..... 87		v	Accident at.....	25	ix
gold mine, NEAR ROSSLAND,			Notes on.....	63	ix
R. R. D.			Nucula expansa.		
Notes on.....	31	iii	Pakenham.....	224	x
	49	vi	" <i>tenuis.</i>		
Rocks of.....	69	iv	Greens creek, near Ottawa.....	224	x
Norwegian Marsh Association....	33 A	xiii	Nugent, Thomas.....	78	ii
Norwich, N. NORWICH TP., OXFORD			Nugget(s) (GOLD),		
co.			Wanapitei, in chlorite.....	38	iv
Brick-yards at, notes.....	86 B	xv	Nugget creek, WABIGOO LAKE, R. R. D.		
clay for, analysis.....	14 B	xv	Soil in valley of.....	171	vii
Norwood, ST. LAWRENCE CO., N. Y.			Gold Mg. Co.		
Marine shells at.....	242 A	xiii	Capital and date of charter.....	11	vii
Nosbonsing. See Astorville.			Nullon, Joseph.....	95	ix
Notre Dame mts., GASPÉ PEN., QUE.			Number 3 mine, SUDBURY DIST. See		
Undulations in strata of.....	5	R C	Six and Six mine.		
Nottamasagami lake, TH. B. D.			Nunnery.		
Huronian rocks on.....	18	R C	Timiskaming lake, north of.....	58	R C
Nottawa quarry, MONO TP., DUF-			Nuphar advena. See Water Lily, yel- low pond		
FERIN CO.			Nuremberg, BAVARIA.		
Notes on, 1899.....	110	ix	Pencils made at.....	37	vi
river, MISSINAIBI RIVER, ALG.	195	viii	Nuts (IRON AND STEEL).		
Nottawasaga river, GEORGIAN BAY,			Canadian imports of, 1881-87....	246-249	R C
L. HURON.					
Cambro-Silurian on.....	39 B	xiii	Nuzums Mills, WEST VIRGINIA.		
Erie clay on.....	10 B	xv	Paving-clay from, analysis.....	120	iii
Sandstone quarrying on.....	99	i			

	Page.	Vol.		Page.	Vol.
Nystrom, Erik			Obabika lake, TIMAGAMI DIST., NIP.		
Magnetic surveying by, Sudbury			Arms of	36 B	xiv
dist.....	289	xii	Geology of, notes by Parks	176	x
	15, 144 C	xiv	Obatonga lake, DOG RIVER, L.		
Oak.			SUPERIOR.		
Fort Frances	161	v	Beach at, altitude.....	176	ix
Hudson Bay slope.....	121	iv	Character of	285 A	xiv
L. of the Woods, Ash rapid.....	51	v	Notes on, by Willmott.....	141	viii
McConkey tp.....	171	ix	Oberschlema, SAXONY	86, 88 B	xiv
Rainy Lake dist.....	96	iv	Obicunimagunk lake. See Seven-		
Rainy lake	162	v	mile lake.		
Rainy river.....	117	iv	O'Brien, E. J.	267	viii
	207, 208	v		69	ix
Fort St. Pierre.....	197	v		80	x
Timiskaming Lake dist.....	118	iv	M. J. See O'Brien silver		
white			mine.		
Heating power of	54 B	xv	W.	105	vii
bay, L. SUPERIOR.				117	ix
Indian cannibalism at.....	138, 139	v	and Kennedy gold claim,		
lake, METHUEN TP., PETER-			WABIGOON LAKE, R. R. D.		
BORO CO.			Quartz from, assay	180	vii
Barytes in.....	213	viii	silver mine, COBALT, NIP.		
Rocks near	193	xi	Accident at.....	34, 35 C	xvi
pt., RAINY LAKE, R. R. D.			Close corporation	13 C	xvi
Sand bars outside of.....	166	v	Notes on, 1905	80 A	xv
ridge, ALBION TP., PEEL CO.			Position of.....	7 A	xv
Limestone at	95 B	xiii	Royalties paid by	27 C	xvi
Ridge, METHUEN TP., PETER-			Shipping, 1905.....	15 B	xvi
BORO CO.			Working, 1906.....	8 C	xvi
Reason for name.....	209	viii	Obsidian.		
mica mine, NEAR WAUBAMIK,			Definition of.....	538	R C
MCDUGALL TP., P. S. D.			Notes on, by Miller.....	234	vi
Notes on, 1895	279	v	Resemblance of, to fergusonite ..	236	vii
Ridges, WHITCHURCH TP.,			Ochre.		
YORK CO.	53	i	Blythfield tp.....	205	ix
Oakhill lake, NORTHUMBERLAND CO.			Boyer lake (Helen iron m.)	189 A	xv
Notes on, by Coleman.....	232 A	xiii	analysis	169	xi
Oakville, W. TRAFALGAR TP., HAL-			notes	169 A	xvi
TON CO.			Composition of.....	455	R C
Iroquois beach at.....	229 A	xiii	Definition of	177	i
Oats.			Esquering tp.....	177	i
Mentioned as grown at :—			L. of the Woods	64	R C
James bay.....	107	iv	Limehouse	177	i
Long Lake House.....	112	iv	Mattagami river.....	128	iv
Michipicoten div.....	296 A	xiv	Nassagaweya tp.....	205	ix
Pringle tp.....	170	ix	Nottawasaga tp.....	205	ix
Rainy River dist.....	65	R C	Occurrences (iron).....	200	ix
Rainy river	163	v	Owen Sound.....	205	ix
Wabigoon	62	v	Paint lake	161	ix
Wanapitei Lake dist	137	vii	Production (Canadian), 1886-87.	243	R C
Oba lake, OBA RIVER, ALG.			molybdic See Molybdite.		
Altitude and length of.....	198	vii	red		
Photo of a stream entering..	140, 141	vii	Lanark and Frontenac cos.....	177	i
Rocks on.....	193, 204	vii	yellow		
Swamp near, height of	9 Bull.	iii	Boyer lake	189 A	xv
	205	vii	analysis	169	xi
river, KABINAKAGAMI RIVER,			notes	169 A	xvi
ALG.			Ochta, NEAR ST. PETERSBURG, RUSSIA.		
Iron on.....	127	iv	Armour plate tests at	142, 144	ii
Obabicon bay, NIPIGON LAKE,			O'Connell, C.	83 A	xv
TH. B. D.....	106 A	xvi	O'Connor, Anthony		
lake, L. OF THE WOODS, ONT.			Mica mining by, S. Burgess tp..	194	iii
Description of	118	vii	Daniel		
Obabika bay, NORTHWEST ARM, TIMA-			Acknowledgments to ...	160, 177	x
GAMI LAKE.			Assistant to Coleman, 1899	172	ix
Rocks on	176	x	Copper found by, Timagami dist.		
20 M.I.		305		172, 173	ix
			Iron " "	20	xii
			tests on.....	336	xii

	Page.	Vol.		Page.	Vol.
O'Connor, Daniel—Con.			Ohio, U. S.—Con.		
Jaspillite found by, Timagami			Shales of, analysis.....	119, 120	iii
dist.....	167	x	Natural gas in.....	151, 152	R C
Part owner, Comstock gold m..	270	vi	115, 120, 121, 141		i
Last chance gold m.	269	vi	depth and pressure.....	155	i
lake, NEAR VERMILION LAKE,			exhaustion threatened.....	210	i
TIMAGAMI REG., NIP.			in Clinton formation.....	98 A	xiv
Iron ore on.....	169-171	x	similar to that of Kent co.....	99 A	xvi
analysis.....	180	x	Trenton formation in.....	42	R C
tp., TH. B. D.			depth below tide.....	113 A	xv
Argentite in.....	194	ix	University of.....	17	v
Calcite in.....	195	ix	notes by Richards.....	511	R C
Harmotome in.....	199	ix	Cobalt Mining Co.		
Mountain leather in.....	205	ix	Capital and date of charter.....	30 A	xvi
Silver mining in. <i>See</i> Beaver			Oil Co.		
silver mine.			Well of, Brooke tp., log.....	111 A	xv
Octibbeha co., MINN.			Paving Co.		
Nickel in siderite in.....	151 C	xiv	Analysis of shale used by.....	119	iii
Odell and Son.			river, U.S.		
Brick yard of, Ingersoll.....	85 B	xv	Anticline on.....	148	i
Ottawa.....	224, 225	x	Ohlsen—?	85	vi
29, 61 B	xv		Oil.		
Oehme—?	87 B	xiv	As furnace fuel.....	395	R C
Oeregrund iron. <i>See</i> Dannemora.			196, 203		ii
Oesterlin, Dr. Charles	121	i	Association of, with natural gas..	143	i
Off-sett deposits.			26		iv
Sudbury dist., notes by Cole-			Athabaska Landing, Alta., boring		
man.....	20, 21 C	xiv	for.....	172	v
Ogden, A.	85	x	Bounty on, aids production.....	21 A	xv
Oil Co.			Calorific power of.....	166	vi
Exhibits of, at Buffalo.....	25 A	xv	481		R C
Ogdensburg, St. LAWRENCE CO., N.Y.			Canadian, compared with that of		
Delta deposits near; fossils near.	242 A	xiii	U. S.....	27	v
Ogema Mg. and Smelting Co.			exports, 1881-1887....	244	R C
Capital and date of charter.....	11	vii	production, 1870, 1880.	209	R C
Notes on, 1892.....	235	ii	1886, 1887.	243	R C
silver mine, DORION TP., TH.			1888.....	525	R C
B. D.			Desulphurizing of.....	27	iv
Galena in.....	198	ix	Duty on, removal of.....	24 A	xvi
Notes on, 1892.....	235	ii	Evidence <i>re</i> , before R. C.....	153-167	R C
Position of.....	38	R C	Exhaustion of, certain.....	157, 158	i
Sale of.....	182	iii	Exhibited at World's Fair.....	193	ii
Ogilvie, William Morley			Findlay, Ohio.....	121	i
Member of Northwest Co.	198	v	Flash tests of.....	163, 164	R C
Ref. to work by, Sudbury dist..	16 C	xiv	Gaspé dist., Que.....	196	ii
and Hutchison.			Industry of, 1895.....	5, 21-27	v
Salt making by, at Goderich....	190	R C	1899.....	107	ix
Ogoki lake, OGOKI RIVER, ALBANY			1906.....	23, 24 A	xvi
RIVER.			New Brunswick, production, 1906.	24 A	xvi
Eruptive rock on, petrography..	209	x	Notes by Goodwin.....	220	vi
river, ALBANY RIVER.			Origin of.....	164	vi
Notes on, by Bell.....	113	iv	91-95 A		xiv
O'Hara—?			anticlinal theory.....	116	i
Estimate by, of peat in Ireland..	189	i	notes by Ross.....	144	i
J. C.	117	ix	Prices, 1890.....	158-161	R C
C. N.	100	x	1895.....	23	v
Ohio, U. S.			1906.....	95 A	xvi
Brick pavements in cities of..	108-114	iii	Refined and the crude equivalent,		
Clays of, for sewer-pipes.....	86	R C	porportion.....	21	v
sources of vitrifying....	118	iii	Report on, by Corkill.	88-117 A	xiv
Coal of, calorific power.....	207	ii	Coste.....	115-118 A	xv
Diamonds in.....	123, 124	ix	Statistics, 1868-9.....	140	iv
Feldspar sent to, for pottery,			1870, 1880, 1887.....	210	R C
from Frontenac co.....	21 A	xvi	1888.....	72	R C
Geological Survey of, notes by			1891.....	6	i
Walker.....	421	R C	1892.....	11	ii
Gypsum in.....	119	R C	1893.....	9, 10	iii
Iron in, cost of production.....	337	R C	1894.....	11, 26-28	iv
production.....	468	R C	1895.....	11, 21-24	v

	Page.	Vol.
Oil.—Con.		
Statistics.—Con.		
1896.....	13, 17	vi
1897.....	15, 17	vii
1898.....	11, 14	viii
1899.....	12, 13	ix
1900.....	11, 12, 17	x
1901.....	13, 39	xi
1902.....	12, 13, 39, 40	xii
1903.....	23, 24	A xiii
1904.....	1, 3, 20	A xiv
1905.....	1, 22, 108	A xv
1906.....	4-6	A xvi
Storing, distilling and refining.		
154-157, 163, 165		R C
Sulphuric acid, for purifying...	193	A xvi
United States, Dunkard creek,		
Penn.....	141	i
production, 1888.	525	R C
quality	166	R C
West Virginia...	18	x
<hr/>		
Essex co., exploration work,		
1895	18-24	vi
Frontenac co., Portland tp., ex-		
ploring for	283	v
Kent co.		
Bothwell field.....	55, 160, 161	R C
production, 1905...	92	A xvi
exploration work, 1895	18-24	vi
map, showing wells.....	93	A xvi
Raleigh tp.....	26	A xiii
bore-hole record.....	111	A xiv
flow ceased	90	A xiv
notes.....	40-42	xii
report by Knight, 1906.....	92-104	A xvi
ref. to.....	21	A xvi
Thamesville (near).....	42	xii
Lambton co., Dawn tp.....	18	vii
Enniskillen tp. 47, 153		R C
notes by Blue.....	178	i
Manitoulin island, boring for.	72, 73	A xv
Middlesex co., Glencoe.....	55	R C
Oxford co., Beachville (near)...	92	B xiii
Big Otter Creek		
valley.....	62	i
Dereham tp	91	B xiii
-can rapid, ABITIBI RIVER.		
Gabbro on, petrography.....	140	A xiii
Notes on portage at	185	viii
Waterpower at.....	193	viii
creek, OHIO, U. S.		
Gas and oil on	141	i
source of	142	i
Exchange, PETROLEA.		
Organization of	161	R C
Exploration Company of		
Canada.		
Capital and date of charter.....	9	xii
of vitriol. See Sulphuric acid.		
shales.		
Collingwood, Scotland.....	42	R C
springs, ENNISKILLEN TP.,		
LAMBTON CO.		
Oil at and near.....	15	viii
156, 158		R C
area of field.....	111	A xiv
compared to that of Petrolea.	24	v
industry, improved, 1895....	5	v

	Page.	Vol.
Oil Springs.—Con.		
Oil at and near.—Con.		
prices, 1895.....	23	v
production, 1891-4.....	26	iv
1893	9	iii
1905	108	A xv
1906	24	A xvi
decreasing.....	23	A xvi
refining.....	162	R C
wells, number, 1895.....	25	v
records.....	113	A xiv
Well Supply Co.		
Output by, 1893.....	118	ii
Oiseau bay, L. SUPERIOR, TH. B. D.		
Description of shores at and near.	135	viii
Ojanperci, John.....	35	A xvi
Ojibway Indians.		
Condition of, compared to more		
northern Indians.....	179	A xiii
Hinterland, The.....	134	iv
Michipicoten div., notes by J. M.		
Bell	298	A xiv
Photo of, in costume.....	176, 177	A xiii
Rainy Lake dist., notes by Cole-		
man.....	97, 98	iv
Oka (PICKEREL) river, W. OF MICH-		
PICOTEN, ALG.		
Iron ore on.....	23	R C
O'Keefe, J.		
Notes by, on peat industry in Ire-		
land.....	189	i
Michael		
Evidence by, before R. C.....	125	R C
ref. to.....	65	ii
Olary, S. AUSTRALIA.		
Cobalt ore near.....	70	B xiv
Old Chap Mining Co.		
Capital and date of charter.....	30	A xvi
Fort island, L. OF THE WOODS.		
See Miller island.		
Green lake, S. E. ALG.		
Burned country near, photo.	160, 161	xii
Description of.....	167	xii
Hill iron mine, SALISBURY		
DIST., CONN.....	346	R C
Red Sandstone. See Devon-		
ian.		
Woman river, BRULÉ BAY,		
L. SUPERIOR.		
Beaches on and near.....	193	A xv
altitude.....	194	A xv
photos.....	195	A xv
Character of.....	176	A xv
Keweenawan formation on.....	189	A xv
Minor ref. to.....	179	A xv
Olden station, OLDEN TP., FRONT-		
ENAC CO.		
Corundum-bearing rocks near....	227	viii
tp., FRONTENAC CO.		
Crystalline limestone in.....	45	ii
Iron ore in.....	54	A xiii
mining.....	276	v
Marl in.....	46	B xiii
Pyrrhotite in.....	207	ix
200		A xv
Quartz from, mill test on.....	215	v
Silver in	209	ix
Zinc mining in.....	25	xii
See also Richardson zinc m.		

	Page.	Vol.		Page.	Vol.
Oldenburg, GERMANY.			Omeemee (PIGEON) rapid, MAT-		
Peat in.....	212, 213	ii	TAGAMI RIVER, ALG.....	127	ix
plant.....	29	A xiii	ON 3 copper loc., SHEBANDOWAN		
used for sanitation.....	216	ii	LAKE, TH. B. D.		
on railways.....	202	i	Notes on, by Coleman.....	80	v
Oleson, John.....	39, 41	A xiii	Onakawana river, ABITIBI RIVER.		
Oligoclase.			Notes on, by Parks.....	189	viii
Definition of.....	538	R C	Onderdonk, Henry.....	48, 111	B xiii
Lanark.....	194	ii	Onaping, DOWLING TP., ALG.		
Olinda, GOSFIELD TP., ESSEX CO.			Beaches near, altitude.....	103	c xiv
Blast furnaces at, 1831.....	23	ii	Rocks at and near:		
Olipphant, W. H.....	137	xii	analysis.....	116, 117	c xiv
	102	A xv	gabbro, petrography.....	294	xii
Olive Gold Co.			gneiss, photo.....	66	c xiv
Capital and date of charter.....	9	viii	granite.....	68	i
See also next ref.			nickel-eruptive.....	197	A xiii
gold mine, N. OF BAD VER-				64	c xiv
MILION LAKE, R. R. D.			analysis.....	212, 213	A xiii
Accident at.....	31-33	vii	petrography.....	210	A xiii
Conglomerate near.....	134	xi	norites.....	3, 114	c xiv
Depth of, 1900..	34	ix	petrography.....	109-111	c xiv
Felsite schists near.....	82, 262	viii	syenitic.....	110	c xiv
Minor ref. to			vitrophyre tuff.....	68	c xiv
Notes on, 1897.....	31-33, 128	vii	analysis.....	132	c xiv
1898....	46, 79, 80, 272, 278	viii	creek, MONCRIEFF TP., ALG.		
1899.....	72-74	ix	Granite on.....	222	A xiii
1900.....	38, 80, 81, 94	x	falls, ONAPING RIVER, ALG.		
Photos of.....	96, 97	ix	Galena and zinc-blende on.....	91	i
Shut down, 1900.....	37	x	Gold Co.		
Oliver, George			Capital and date of charter.....	9	viii
Iron mining by, N. Crosby tp.	44, 50	ii	Sluicing plant of, photos....	160, 161	x
John. See Vermilion Gold Mg.			Work by, 1900.....	157, 158	x
Co.....	113	R C	lakes (LOWER AND UPPER),		
Oliver, Thomas.....	25	A xiv	ONAPING RIVER, ALG.		
	30-33	A xv	Altitude of.....	156	x
and Roberts Wire Co.....	370	R C	Gold on and near.....	187	x
	120	ii	alluvial.....	258	vii
Bros. and Phillips.....	370	R C		157	x
Ferry. See MacCue.				17, 201	xi
Iron and Steel Co.....	120	ii	H.B.C. post between, and Long		
pyrites mine, HUNGERFORD			Lake.....	156	x
TP., HASTINGS CO.			Jasper on.....	187	x
Notes on, 1906.....	80	A xvi	Lumber dam on.....	154	x
and photo.....	158-159	A xvi	Notes on, by Bell.....	76	i
tp., TH. B. D.			Rocks on.....	154	x
Magnesite in. See Murillo sta....	299	xii		222	A xiii
Road from, to Whitefish lake...	9	vi	arkose.....	74	i
Olivine. See Chrysolite.			jasper conglomerate.....	187	x
diabase. See Diabase, olivine			river, VERMILION RIVER, ALG.		
Ollman, M.....	106	B xv	Falls on, photo.....	6	c xiv
Ollmann, Mrs. H.....	29	xii	Glaciation near.....	102	c xiv
Olson, John.....	42-50	x	gravel plains.....	65, 106	c xiv
Olympia gold mine, M11 LOC.,			Log jam and log chute on, photo.		
L. OF THE WOODS.				224, 225	A xiii
Mill erected at.....	60	A xvi	Rocks on and near.....	197	A xiii
Minor ref.	34	A xiv		64	c xiv
Work by, 1902.....	95	xii	breccia.....	86	i
1903.....	61	A xiii	tuff, notes.....	10, 39, 86, 94	c xiv
1906.....	60	A xvi	petrography.....	131, 132	iv
Olympia Gold Mg. Co.			pyritous.....	95, 131	c xiv
Capital and date of charter.....	31	A xvi	O'Neal, Cornelius.....	129	i
Work by, Shoal Lake dist.....	59	A xv	John.....	224	i
See also last ref.				48	iii
O'Mara, Patrick			Onega lake, RUSSIA.		
Mica mining by, S. Burgess tp.	195	iii	Schungite from, analysis....	165, 166	vi
Ombabika river, NIPIGON LAKE,			Oneida, ONEIDA TP., HALDIMAND CO.		
TH. B. D.			Gypsum at, analysis.....	56	B xiii
Notes on, by Bell.....	202	v			

	Page.	Vol.
Oneida tp., HALDIMAND CO.		
Gypsum mining in.	112, 113	i
evidence before R. C.	24	x
See also Garland mine.	122	R C
Martindale mine.		
Limestone from, analysis	15, 16	B xiii
Travertine in.	211	x
crystalline.	91	B xiii
O'Neil, John	132	x
O'Neill, C. H.	92	vii
	88	x
Onions, Peter (1783)	359	R C
Onions.		
Mentioned as growing at:—		
Abitibi dist., Fort Matache-		
wan.	240	A xiv
New Post.	186	viii
Night-hawk lake	123	A xii
Redstone river.	107	A xiii
Goulais River valley.	197	viii
Rainy river.	163	v
<i>Onoclea sensibilis.</i>		
Abitibi Lake dist.	242	A xiv
Mattagami valley.	151	A xv
Onondaga, U. S.		
Onondaga formation named		
after.	44, 45	R C
Salt springs at.	14	i
formation.		
Composition of.	98	A xiv
Distribution and character, notes		
by Bell.	45	R C
occurrences.	24	B xiii
Gypsum in.	119	R C
	170, 177	i
	147, 148	xii
Position of, in Silurian.	2	R C
Rocks in, for hydraulic cement.	15	B xiii
Salt in.	170, 177	i
————— —————		
Brant co.	33	B xiii
Bruce co.	35	B xiii
Essex co.	115	A xiv
Grand river, gypsum in.	110	i
Halldimand co.	51	B xiii
Kent co., E. Tilbury tp., thick-		
ness.	103	A xvi
Lambton co., Petrolea, thickness.	96	A xiv
Waterloo co.	115	B xiii
Welland co.	116, 117	B xiii
Wellington co.	120, 122	B xiii
tp., BRANT CO.		
Mineral water in. See Tuscarora.		
Ontario.		
Area of.	101	iv
	182	A xvi
Arsenic in, paper by Wells.	101-122	xi
At the Pan-American Exhbtn.,		
report by Speller.	83-90	xi
Beaches (marine) of Eastern, re-		
port by Coleman.	215-227	x
Boundaries of (1890).	1	R C
disputes re.	191, 192	v
Bricks of, compared with U.S.	129	iii
Clays of, notes by Gibson.	125-132	iii
report by Baker.	Pt. B	xv

Ontario.—Con.

	Page.	Vol.
Climate of, compared with Den-		
mark and Sweden.	197	xii
favourable for peat-bogs.	202	xii
Copper ranges of, report by Cole-		
man.	142-191	ix
Divisions of, explanation.	218	vii
Dominion Survey's operations		
in, scanty.	408	R C
Fossils in, list of marine.	224-227	x
Fuel supply of.	203, 204	ii
Garnets in, of doubtful value.	188	ii
Gas regions of, report by Stiff.	42-45	xi
Geographical position of.	101	iv
Geology of, associated with its		
history.	185	ii
evidence before R.C.	52-70	R C
paper by Bell.	1-52	R C
Geological Survey for, necessary.	424	R C
Gold-fields of, notes by Blue.	8	v
paper by Blue.	11-61	iii
See also Inspector of Mines.		
Highest land in (Tip-top mt.) ..	142	viii
photo (mt. Sinclair)	176-177	vii
Iron ores of.	31-82	ii
titaniferous.	233	vii
making in, cost compared		
with Michi-		
gan.	103	ii
prospects.	28-32	iv
	33, 34	x
ranges in, extent.	200, 201	x
report by Coleman.	142-191	ix
	128-151	xi
Miller.	304-317	xii
Limestones of, report by Miller. Pt. B.	xiii	
Lumbering in, chief localities.	119	iv
Maps of, geological index.	203, 204	R C
	23	B xiii
pyrites deposits.	151	A xvi
southern.	23	B xiii
Metals of, names and occur-		
ences.	190-193	ii
Mineral exports, 1874, 1886.	238	R C
statistics. See opening		
pages of each annual		
report.		
resources, report by R.C.	Vol. R C	
Minerals of, paper by Miller.	193-212	ix
Mining laws of, compared to		
those of British Columbia.	4, 5	vii
paper by Blue.	225-229	ix
Mining schools in, description.		
	193-198	vi
locations for.	420	R C
Oil of, compared with that of		
U.S.	27	v
Peat areas of.	197, 209	ii
Population of, 1901.	192	xii
families, 1890.	180	i
Pyrrhotite occurrences in.	207	ix
	200	A xvi
Rocks of, Archæan.	245	v
Huronian.	182-186	ix
Laurentian, paper by		
Bell.	245, 249	v
petrography.	179, 182	ix
trap, distribution.	15	v
Seaside of, paper by Gibson.	128-30	iv

	Page.	Vol.		Page.	Vol.
Ontario.—Con.			Ontario Joint Stock Phosphate Mg. Co.		
Settling in, as farmers, advantages of.....	136, 137	iv	Capital and date of charter.....	11	vii
Silver mining by Govt. of. <i>See</i> Gillies limit.			Lead and Zinc Co.		
Sulphur in mineral-bearing rocks of.....	22 A	xvi	Work by, 1902.....	87 A	xiii
Waterpowers of, act respecting.			Limited gold mine, L. OF THE WOODS.		
	253-256	vii	Idle, 1898.....	280	viii
paper by Gibson.			Notes on.....	53, 54	vii
	251-253	vii		68, 276	viii
and California Oil Co.			Lithographic Stone and Mg. Co.		
Capital and date of charter.....	11	xi	Capital and date of charter.....	12	vii
and Rainy River R'y.			Mineral Lands Co.		
Notes on route and power of.	133, 134	v	Formation of.....	140, 141	vi
Bank.			Prospecting by, for copper, Pt. Mamainse.....	130	ii
Iron claim owned by, Lutterworth tp.....	52, 56	x	Purchase by, of land from Montreal Mg. Co.....	69	iii
Boulder Gold Mg. Co. <i>See</i> Boulder Gold Mg. Co.			Sale of lands of.....	153	vi
Bureau of Mines. <i>See</i> Bureau of Mines.			Work by, Silver Islet mine.....	35	R C
co.				141	vi
Limestone in, notes by Miller...	89 B	xiii	Mines Development Co.		
Cobalt Development Co.			Capital and date of charter.....	11	vii
Capital and date of charter.....	26 A	xv	Mining and Smelting Co.		
Colorado Mg. Co.			Lead mining by, Bannockburn...	11 A	xiii
Work by, Spider lake.....	94 A	xiii		39, 79 A	xiv
Copper Co.				16 A	xv
Eldorado mine worked by.....	76 A	xvi	Mg. and Mfg. Co.		
Corundum Co.			Capital and date of charter.....	11	vii
Capital and incorporation.....	9	xii	Mining Co.		
Name of, changed.....	19 A	xiv	Capital and date of charter.....	10	x
	99 A	xv		11	xi
Operating, 1902.....	37, 135	xii	Gold mining by, L of the Woods.	118	R C
1903.....	19, 21, 89, 90 A	xiii		233	ii
Plant of, destroyed by fire.....	75 A	xiv		14	iii
photos.....	112, 113 A	xiii	Natural Gas Co.		
Succeeded by Ashland Emery & Corundum Co.....	19 B	xv	Boring by, for oil, Gosfield tp...	25	vi
Crude Oil Co.			Dispute with Kingsville villagers.		
Capital and date of charter.....	24 A	xiii		117, 123	i
Gas and Fuel Co.			Merged in Natural Gas and Oil Co.....	28	v
Exhibits of, at Buffalo.....	25 A	xv	Nickel Co.		
Gold Concessions, Ltd.			Capital and date of charter.....	30 A	xvi
Capital of.....	10	viii	Work by, 1906.....	67 A	xvi
Work by, 1897.....	55	vii	Nickel Mountain Mg. Co.		
1898.....	84-87	viii	Capital and date of charter.....	11	vii
1899.....	47, 48	ix	Oil and Gas Co.		
Gold Fields Mg. and Development Co.			Capital and date of charter.....	31 A	xvi
Capital and date of charter.....	11	vii	Oil and Refining Co.		
Gold Mining Co.			Capital and date of charter.....	30 A	xvi
Formation of.....	159	v	Paving Brick Co.		
Owning Foley mine.....	5 Bull.	i	Analysis of clay used by.....	8 B	xv
	81	vi	Hudson River shales used by...	7 B	xv
Government Gold Concessions.			Minor ref. to.....	15 A	xiii
Formation of, and directors.....	9	vi	Plant of, description.....	16	v
Graphite Co.			Work by, for Toronto streets... notes and photos..	112-114 B	xv
Capital and date of charter.....	11	xi	Peat Fuel Co.		
officers.....	31	v	Work by, Welland co.....	33	iv
Exhibit of, at Pan-American Ex.	87		People's Salt and Soda Co.		
Operating Black Diamond mine.	25 A	xvi	Producing, 1899.....	111	ix
Notes on.....	37	vi	1902.....	38	xii
Purchase by, of boring plant....	42 A	xiii	1903.....	22 A	xiii
<i>See also</i> Whitefish lake.			1905.....	21 A	xv
graphite mine. <i>See</i> Black Donald graphite mine.			1906.....	23 A	xvi
			People's Salt Manufacturing Co.		
			Evidence <i>re</i> before R. C.....	189	R C

	Page.	Vol.		Page.	Vol.
Ontario Portland Cement Co.			Onwatin lake, CAPREOL TP., NIP.		
Capital and date of charter.....	11	xi	Gravel and sand on	5 c	xiv
Clay and marl used by, analysis.	159 A	xiv	Iron pyrites on	204 A	xiii
Notes on, 1902.....	33,	xii	Nickel prospecting on	75 c	xiv
1905.....	154 A	xiv	Rocks on and near :—		
Officers of	18 B	xiii	diabase dike.....	203 A	xiii
Operating, 1904.....	18 A	xiv		73 c	xiv
1905.....	17 A	xv	slate, black.....	207 A	xiii
1906.....	20 A	xvi	notes.....	10, 95,	96 c
Plant of	18 B	xiii	petrography	133 c	xiv
capacity	17 A	xiii	Shores of, character.....	6 c	xiv
Property on Blue lake acquired			Terraces near.....	103,	106 c
by	34 B	xiii	Oolite.		
Prospectors Mg. and Dev.			Definition of.....	538	R C
Co.			Opal.		
Capital and date of charter.....	11	vii	Apatite dists.....	442	R C
Stella mines owned by.....	33,	vii	Definition of.....	539	R C
Work by, L. of the Woods, 1897.	38	vii	Opasatika lake, OPASATIKA RIVER,		
Quebec Cobalt Mg. Co.			ALG.		
Capital and date of charter.....	28 A	xvi	Character of.....	144 A	xiii
Reefs Mg. and Development			Diabase from, to Missinaibi river.	181 A	xvi
Co.			Dimensions of	135 A	xiii
Capital and date of charter.....	11	vii	Iron ore on.....	23	R C
Rolling Mill Co.			pyrites	256	v
Bounty payments to, 1900	33	x	Pine on	119	iv
Merged in Hamilton Steel and			(LONG) lake, PONTIAC CO.,		
Iron Co.....	14	ix	QUE.		
Sewer Pipe Co.			Iron ore on	228,	230
Capital and date of charter.....	30 A	xvi	river, MISSINAIBI RIVER, ALG.		xi
Minor ref. to.....	15 A	xiii	Description of, by J. M. Bell.	135,	136 A
Operating, 1906.....	19 A	xvi	Falls on, photo	176,	177 A
Plant of, at Mimico	29 A	xiii	Forest fires on.....	256	v
notes	117 B	xv	Iron ore on, map showing.....	153 A	xiii
photo.....	118 B	xv	notes.....	150-152 A	xiii
Silver and Antimony Mg. Co.			pyrites.....	149,	150,
Capital and date of charter.....	11	vii	181 A	xvi	
Silver Plating Co.			Lignite on, notes by J. M. Bell.		
Notes on, 1890.....	131	i		162,	164 A
Smelters, Ltd.			Rocks on.....	138,	140 A
Exhibits of, at Pan-American Ex.	25 A	xv	Timber on.....	176,	177 A
Smelting Works, Ltd.			Opeepeesway lake.	317	xii
Accident at works of	44	xii	Ophiolite. See Serpentine.		
Canadian Copper Co.'s matte			Ophir gold mine, ICKTA LAKE, GAL-		
treated by.....	19	xii	BRAITH TP., ALG.		
Copper prospecting by, near			Accident at	200-206	iv
Massey	37	x	Beach at.....	152,	153
Operations commenced by, 1901.			Diorite in	40	iv
	19,	21	Financial difficulties affect.....	3	iv
Works of, burnt.....	6 A	xiii	Notes on, 1894.....	231-233	iv
	69 A	xiv	1899.....	89.	90
erected	141 c	xiv	1902.....	80,	81
notes on, 1901.....	140 c	xiv	by Blue	37-44	iii
1902.....	280	xi	Nuggets from.....	236	ii
1903.....	121	xii		37	iv
photo.....	84 A	xiii	Photo of, showing vein in bluff..	41	iii
	272,	273	Promising well	192	ii
Terra-cotta and Pressed			Purchased by a Duluth syn.....	9	ii
Brick Co.			Quartz of, character.....	36	iv
Notes on	103,	104	Section of	206	iv
Victoria Mining Co.			showing veins	44	iii
Capital and date of charter.....	10	ix	Worked for iron, 1901.....	23	xi
Ontonagan dist., MICH.			Jack gold mine, SULTANA		
Copper deposits of.....	85	iii	ISLAND, L. OF THE WOODS.		
river, MICH.			Character of vein	109	R C
Copper on, early knowledge.....	110	v	Notes on, by Blue.....	14,	15
.. prospecting	93	R C	Coleman	68	iv
			Rocks in	116,	123
			Mines Development Co.		vi
			Capital and date of charter.....	10	ix

	Page	Vol.		Page	Vol.
Ophir Mining Co.			"Oregon" ss.		
Gold on land of, discovery.....	122	iv	Armour of.....	149	iii
Formation of.....	43, 44	iii	O'Reilly, T.		
Opimicon bay, KESAGAMI LAKE, NIP.			Brick-yard of, Ottawa.....	61 B	xv
Peat near, depth of.....	148 A	xiii	Orekkhova, NIGNI-NOVGOROD PROV., RUSSIA.		
Opinicon (ROCK LAKE) apatite mine,			Peat near.....	217	ii
STORRINGTON TP., FRONTENAC CO.			Orel prov., RUSSIA.		
Notes on, 1891.....	239	i	Peat in.....	217, 218	ii
1892.....	250	ii	Orford Copper Co.		
Mining Co.			Absorbed by International Nickel		
Capital and date of charter.....	11	vii	Co.....	172 C	xiv
Opishiquaquaya lake, KAMISKO-			Exhibit of, at Pan-American Ex.	86	xi
TANA LAKE, SAGAIGAN RIVER,			Methods of, improved.....	179	iv
ALG.....	130	ix	Monopoly of.....	59 A	xiii
Ops tp., VICTORIA CO.			Nickel refinery of, Constable		
Artesian wells in. <i>See</i> Lindsay.			Hook, N.J.....	131	ii
Limestone in.....	113 B	xiii		170 C	xiv
Optic lake, NIP.	112 A	xiii	Nickel refining process of.....	218-221	ix
<i>Opuntia fragilis.</i>			Palladium production by.....	8 A	xiv
Lake of the Woods and Rainy			Prices charged by.....	11 A	xvi
lake....	96	iv	Sales by, to U.S. navy.....	138	ii
	51	v	Smelter of, Copper Cliff.....	125	x
Orange co., N. Y.				64, 280	xi
Corundum in.....	240	viii	for Cobalt ores.....	140 C	xiv
Hall, HAILEYBURY, NIP.	40 A	xiv		64 A	xv
	43 A	xv	Smelter proposed by, Georgian		
Hall, NEW LISKEARD, NIP.	41 A	xiv	bay.....	261	viii
river, S. AFRICA.			Sudbury ores refined by.....	27	vii
Diamonds in.....	122	ix	tp., KENT CO.		
Orangeville, GARAFRAXA TP., DUF-			Gas in.....	29	v
FERIN CO.			bore-hole records.....	123, 124	i
Brick-yard at.....	61 B	xv	Oil in, boring for.....	5	v
Cement works at:—				18-21	vi
<i>See</i> Orangeville Cement Co.			Salt in, depth and thickness.....	33	vi
Superior Portland Cement			tp., SHERBROOKE CO., QUE.		
Co.			Millerite in.....	213	vi
Guelph formation at.....	121 B	xiii		59 B	xiv
Limestone quarrying at.....	99	i	Original Swede Boys' Prosp'g Co.		
	39 B	xiii	<i>See also</i> Swede Boys' gold mine.		
Sandstone quarrying near. <i>See</i>			Capital and date of charter.....	11	vii
Mono tp.			Photo of sluices of.....	112, 113,	vi
Cement Co.			Orillia, ORILLIA TP., SIMCOE CO.		
Formation; analysis of marl and			Artesian water in.....	59	i
clay to be used by.....	16 A	x	Brick-clay in, analysis.....	18 B	xv
Orassi, Eugene.	34, 35 A	xvi	Waterpower at.....	14 A	xv
<i>Orbiculoidea.</i>			Wolframite near.....	212	ix
Anderdon tp.....	125	xi	tp., SIMCOE CO.		
<i>Orchis rotundifolia.</i>			Limestone in.....	89 B	xiii
Mattagami valley.....	150 A	xv	Oriole Gold Co.		
Orconerara Iron Co.	121	ii	Capital and date of charter.....	11	vii
Orde, F. W.	118	vii	Orion gold mine, S. W. OF CARLETON		
Orde Brown, Capt.			LAKE, MANITOU LAKE REG., R. R. D.		
Authority on armour plates..	160, 162	iii	Notes on, 1899.....	62	ix
Compound armour plates advo-			Orion Gold Mining Co.		
cated by.....	153, 154	iii	Capital and date of charter.....	10	ix
Ordnance. <i>See</i> Guns.			officers.....	62	ix
Ordovician. <i>See</i> Cambro-Silurian.			Mining Co.		
Ores.			Capital and date of char er.....	24 A	xiii
Copper, Canadian exports, 1881-			Oriskany formation (DEVONIAN).		
1887.....	244	R C	Composition of.....	98 A	xiv
Smelting of, paper on.....	374-377	R C	Grindstones made from.....	54 B	xiii
Ore Contracting Co.			Haldimand co.....	53-56 B	xiii
Capital and date of charter.....	28 A	xvi	Hagersville.....	145, 146	xii
Oregon, U.S.			Niagara river, near.....	46	R C
Mining laws of, notes by R.C....	283	R C	Oil in.....	114 A	xiv
Nickel in.....	146 C	xiv	Springvale, fossils from.....	144	xii
character.....	44	vi	Thickness of, in oil-fields.....	96 A	xiv
genthite.....	148 C	xiv	Wainfleet tp.....	119 B	xiii
Platinum in.....	142	vii			

	Page.	Vol.
Ormond corner, WINCHESTER TP., DUNDAS CO.		
Limestone at.....	40 B	xiii
Calceiferous.....	47 B	xiii
Ornamental stones.		
<i>See also</i> Building stones.		
Bruce Mines, north of.....	72	i
Lamorandiere bay.....	93	i
White-beaver lake.....	93	i
Orpiment, (YELLOW SULPHIDE OF ARSENIC).		
Carrying arsenic.....	101	xi
Description of.....	221	vi
Hardness and specific gravity of.	201	vi
Orr, James A..... Bros.	220	iv
Views of, re gas fuel.....	19	x
Orser, Sidney.....	134	x
	90 A	xvi
<i>Orthis livia.</i>		
Anderdon tp.....	125	xi
" (<i>Rhipidomella</i>) <i>livia.</i>		
Port Colborne, near.....	35	xi
St. Marys, near.....	96 B	xiii
St. Marys river.....	151	xii
" <i>lynx.</i>		
Gore Bay.....	77 B	xiii
Orthite. See Allanite.		
<i>Orthoceras.</i>		
Abitibi river.....	187, 188	viii
Anderdon tp.....	125	xi
Gore Bay.....	77 B	xiii
Kwataboahagan river.....	189 A	xiii
diagram.....	192, 193 A	xiii
Port Colborne, near.....	36	xi
St. Marys.....	152	xii
" <i>algomense.</i>		
Kwataboahagan river.....	189 A	xiii
diagram.....	192, 193 A	xiii
" <i>extremum.</i>		
Kwataboahagan river.....	189 A	xiii
diagram.....	192, 193 A	xiii
" <i>luxum.</i>		
Kwataboahagan river.....	189 A	xiii
photo, in limestone.....	192, 193 A	xiii
" <i>pelops.</i>		
Kwataboahagan river.....	189 A	xiii
" <i>pulcher.</i>		
Kwataboahagan river.....	189 A	xiii
diagram.....	192, 193 A	xiii
" <i>procerus.</i>		
Kwataboahagan river, photo of, in limestone.....	192, 193 A	xiii
" <i>thoas.</i>		
Kwataboahagan river.....	189 A	xiii
Orthoclase.		
Apatite dists.....	442	R C
Bathurst tp.....	205	ix
Burgess, N. tp.....	205	ix
Composition of.....	224	vi
Crosby tp.....	205	ix
Definition of.....	539	R C
Description of.....	224	vi
Hardness of.....	202	vi
	214	vii
Kingston dist., containing feldspar for pottery.....	205	ix

	Page.	Vol.
Orthoclase.—<i>Con.</i>		
Sebastopol tp.....	188	ii
	205	ix
Specific gravity of.....	202	vi
Orthose.		
Ilmen mts., Russia, with corundum.....	213	vii
<i>Orthothetes.</i>		
Anderdon tp.....	126	xi
Orton, Prof. Edward		
Head of ceramics dept., Ohio University.....	17	v
Notes by, on clay for paving bricks.....	114-118	iii
gas in Ohio.....	120	i
origin.....	142-145	i
	93-96 A	xiv
Notes by, on gas, uses.....	159	i
Seeger cones.....	40 B	xv
Ref. to work by, oil and gas, Ohio.....	151	R C
	115, 116, 130, 151	i
	108 A	xiv
iron mine, HASTINGS DIST.		
Rocks of.....	57	ii
Orwell, YARMOUTH TP., ELGIN CO.		
Brick-yards in, notes.....	62 B	xv
clay for, analysis.....	14 B	xv
<i>Oryzopsis asperifolia.</i>		
Ottawa, near.....	225	x
Osaquam (OSAKWAN), W. OF IGNACE, R.R.D.		
Country north of, character.....	147	xi
Osawabik Mining Co.		
Capital and date of charter.....	11	xi
Osborne, Chase S.		
Mining by, Michipicoten div....	105	viii
	117	ix
	143	x
Moose mt.	21, 299	xii
	216 A	xiii
	103 C	xiv
H.	66	xii
Oil Producers, Ltd.		
Exhibits of, at Buffalo.....	25A	xv
Oschekkamega Indians.		
Cannibalism among.....	138	v
Oshawa, WHITBY TP., ONTARIO CO.		
Iron works at.....	329	R C
Limestone at.....	41, 89 B	xiii
Oshawong, WANAPITEI RIVER, N1P.		
Huronian quartzite on.....	155	x
Osinawe lake, SEINE RIVER, ONT.		
Gold on.....	58	iv
mining.....	74, 267	vi
Osler, —?	111	R C
<i>Osmereus mo. dar.</i>		
Greens creek, Ottawa.....	224	x
Osmiridium (IRIDOSMINE).		
British Columbia.....	8 A	xiv
<i>Osmorrhiza brevistylis.</i>		
Abitibi dist.....	241 A	xiv
Mattagami valley.....	150 A	xv
<i>Osmunda cinnamomea.</i>		
Mattagami valley.....	151 A	xv
" <i>regalis.</i>		
Abitibi Lake dist.....	242 A	xiv
Mattagami valley.....	151 A	xv
Moose River basin.....	177 A	xiii

	Page.	Vol.
Osnabruck Centre, OSNABRUCK TP.,		
STORMONT CO.		
Marine deposits near	220	x
tp., STORMONT CO.		
Marine deposits in. <i>See</i> Gallin-		
gertown.		
Peat in	190	i
	198	ii
<i>See also</i> Newington.		
Oso tp., FRONTENAC CO.		
Apatite in	172, 439	R C
	194	ix
Barytes in	53	R C
Corundum in	205, 227, 228	viii
Feldspar prospecting in	81, 83	A xiv
Gold prospecting in	265	v
Igneous rocks in	225	viii
Iron ore in	37, 46	ii
mining	275, 276	v
Limestone in, crystalline	45	ii
Quartz from, mill test on	214	v
Osprey tp., GREY CO.		
Niagara formation in	44	R C
Oil well in, log	109, 114	A xv
Trenton formation in, height		
above tide level.	113	A xv
Ostandigistagan falls, GROUND-		
HOG RIVER, ALG.	132, 142	ix
Oster island, L. TIMISKAMING, QUE.		
Rocks on	86, 87	B xiii
Osterholz, GERMANY.		
Moss litter at, experiments on	141	iii
O'Sullivan, Henry		
Notes by, on country E. of Moose		
River basin	204	v
Otago, NEW ZEALAND.		
Mining schools at	213	i
	222	iv
staff	515	R C
dist., NEW ZEALAND.		
Scheelite from	517	R C
Otey,—?		
Iron mining by, N. Crosby tp.	44	ii
Otisse, Samuel		
<i>See also</i> Otisse pyrites mine.		
Manager, " "	80, 134	vii
	89	x
Gold Mining Co.		
Capital and date of charter	12	vii
pyrites mine, COOK LAKE,		
NEAR SCHREIBER.		
Notes on, 1898	80, 134	vii
1900	88, 89	x
by Fraleck	177, 178	A xvi
Photos	48, 49	vii
Otonabee canal, PETERBORO CO.		
Lock on, made of limestone from		
Dummer tp.	97	B xiii
river, PETERBORO CO.		
Limestone on, coral bearing	97	B xiii
Morainic hills east of	233	A xiii
Ott, Michael		
Brick yard of, notes on	104	B xv
Ottawa, CARLETON CO.		
Anorthosite from, analysis	226	viii
Apatite in dist. of	174, 177, 178	R C
Black River formation on	41	R C
Brick yards at, notes	60	B xv
photo	47	B xv

	Page.	Vol.
Ottawa.—Con.		
Carbide works at	296	xi
	140	xii
	25	A xvi
Clays at and near:—		
boulder, photo	30	B xv
Erie	9	B xv
Leda	215	x
analyses	31	B xv
photo	33	B xv
Saugeen	19, 33	B xv
Experiments at, on insecticides,		
115, 116		xi
Fossils from	224-226	x
Graphite works in. <i>See</i> Ontario		
Graphite Co.		
Iron near, ilvaite	194	ii
	201	ix
notes by Birkinbine	345	R C
Mica trimming works at	28, 291	xi
	131	xii
	87-91	A xvi
Sulphide pulp plant at	199	A xvi
Trenton formation at	42	R C
Brick Manufacturing Co.		
Brick-yard of, notes	61	B xv
producing	29	xii
Carbide Co.		
Notes on, 1900	21	A x
1904	87, 88	A xiv
Producing, 1901	36	A xi
1902	36	A xii
1903	18	A xiii
1904	18	A xiv
1905	23, 107	A xv
Cobalt Silver Mg. Co.		
Capital and date of charter	30	A xvi
Ottawa Front, Carleton co.		
Limestone from, analysis	38, 39	B xiii
co., OHIO.		
Anticline in	116	i
Apatite mining in, early	436	R C
Quartzites of	21	R C
Gold Mg. and Mfg. Co.		
<i>See also</i> Golden Whale mine.		
Sakoose mine.		
Capital and date of charter	11	vii
Objects of	53	vi
Option of, on Scotty Island mine.	42	ix
Works of, Keewatin, description.		
	60-62	vii
Granite Co. <i>See</i> Canadian		
Granite Co.		
Mica Mining Co.		
Capital and date of charter	11	xi
Works of, Ottawa	131	xii
	86	A xiv
Power Co.		
Supplying power to Ottawa Car-		
bide Co.	21	x
river, ONT. AND QUE.		
Apatite N. and S. of	436	R C
Fossils in valley of	50	R C
Geology of, above Ottawa	104	B xiii
Glaciation in valley of	50	R C
notes by Miller	226, 227	x
Iron ores in valley of, notes	32	ii
Laurentian N. of, thickness	168	i
Minor ref. to	201	v

	Page.	Vol.
Ottawa river.—Con.		
Palæozoic area of.....	22	B xiii
Leda clay.....	215	x
Pine in valley of.....	119	iv
Salt water in valley of.....	32-B	xv
Waterpower on.....	252	vii
Otter.		
Abitibi dist.....	178, 193	viii
	189	xii
	127	A xiii
Hinterland, The.....	133	iv
Moose River basin.....	178	A xiii
Timagami Lake dist.....	58	R C
apatite mine, N. BURGESS TP., LANARK CO.		
Notes on, 1892.....	251	ii
cove, L. SUPERIOR, TH. B. D.		
Copper prospecting on.....	134	viii
Iron ore near.....	314	xii
Tin at, salted.....	139	vii
creek, BLANCHE RIVER, QUE.	36	B xiv
head, BYRON TP., L. SUPERIOR.		
Rocks at and near.....	305, 349-352	A xiv
granite.....	306	A xiv
Shores near, description.....	134	viii
Tin salting near.....	139	viii
island, L. SUPERIOR, TH. B. D.		
Description of mainland opposite.	134	viii
lake, ASHBY TP., ADDINGTON CO.		
Granite near.....	225	viii
lake, EPINETTE RIVER, MISSISSAGI RIVER, ALG.	168	xii
lake, W. OF 4TH MERIDIAN, R. D.		
Fahlbands near, mineralized....	176	vii
Minor ref. to.....	147	xi
Rocks in vicinity of.....	165	vii
Striae near.....	173	vii
portage, ABITIBI RIVER.		
Rocks at.....	142	A xiii
fossiliferous limestone....	32	B xiii
station, MICHIPICOTEN DIV., ALG.		
Graphite near.....	187	vii
tp., ALG.		
Rocks in.....	163	xii
Otters, The, ABITIBI RIVER.		
Character of river near.....	192	viii
Corniferous formation near.....	47	R C
Notes on, and vicinity.....	186	viii
Ottertail, ALG.	37-39	iii
lake, N. OF L. HURON, ALG.		
Beach at, height of.....	152, 153	viii
Rocks on and near.....	153, 159	viii
Waters of, lowered.....	38	iii
Otto tp., NIP.		
Rocks in.....	230	xi
granite.....	178	xii
Keewatin.....	264, 268	A xiv
Otty lake, N. BURGESS TP., LANARK CO.		
Apatite on, evidence before R.C.	167, 168, 174-176	R C
veins, character.....	440	R C
Oven bird.		
Abitibi dist.....	243	A xiv

	Page.	Vol.
Overstrom, Joseph		
Experiments by, on producing aluminium.....	20	A xii
Ovifak, DISCO ISLAND, GREENLAND.		
Nickel at.....	151	C xiv
Owen, J. K.	200, 203, 232	iv
Sound, SYDENHAM TP., GREY CO.		
Brick clay near.....	122	viii
Erie.....	10, 13	B xv
works, notes.....	66	B xv
Cement works at, notes.....	32	xii
<i>See also</i> Imperial Cement Co. Sun Portland Cement Co.		
Gravel bed at, photo.....	27	B xv
Limestone near.....	49, 50	B xiii
quarried.....	99, 100	i
Medina sandstone at.....	48	B xiii
Pottery works at.....	118	B xv
Springs at.....	55, 56	i
sound, GEORGIAN BAY, L. HURON.		
Beaches on.....	177	ix
levels.....	152, 155	viii
Ochre on.....	205	ix
Water levels at.....	151	viii
Sound Brick Co.		
Capital and date of charter.....	30	A xvi
Sound Natural Gas and Oil Co.		
Capital and date of charter..	24	A xiii
Sound Portland Cement Co.		
Analysis of clay and marl used by.	183	A xiv
Brochure by, on cement, extract from.....	172	A xiv
Operating, 1898.....	16	vii
1899.....	109	ix
1901.....	32	xi
1902, notes.....	32, 35	xii
1903.....	17	A xiii
	17	B xiii
1904, notes and pho-		
tos.....	154-157	A xiv
1905.....	17	A xv
1906.....	20	A xvi
Sound Stone Co.		
Cement of, quality.....	17	iv
Work by, 1890, notes.....	99, 100	i
1899, ".....	110	ix
Owens, John	167	iii
college, MANCHESTER, ENG.		
Notes on, by Richards.....	512	R C
Owl.		
Abitibi dist.....	253	A xiv
great horned		
Abitibi dist.....	243	A xiv
screech		
Abitibi dist.....	126	A xiii
Ox pt., BAY OF QUINTE.		
Limestone quarries at.....	27	B xiii
<i>Oxalis acetosella.</i>		
Abitibi Lake dist.....	241	A xiv
Mattagami valley.....	150	A xv
Oxalite.		
Kettle pt.	205	ix
Oxbow, The, SAUGHEN RIVER.		
Lithographic stone at.....	36	B xiii

	Page.	Vol.		Page.	Vol.
Oxford, WARREN CO., N. J.			Paddon, S. W.	48	ix
Concentration process at iron furnace of	330	xii	Paddy lake, MICHIPICOTEN DIV., ALG.	294	A xiv
co.			Paget, George	59	xi
Brick-yard of, notes	85-87	B xv	John	51	xii
Limestone in, notes by Miller	91	B xiii	Paint.		
Corniferous	25	B xiii	Arsenic in	120	xi
gold mine, ANZHEKUMMING LAKE, R. R. D.			See also Mineral pigments and Ochre.		
Notes on, 1899	61, 62	ix	creek, DOG RIVER, L. SUPERIOR.		
Mining Co.	61	ix	Canoe route by	289, 290	A xiv
tps., OXFORD CO.			Drainage area of	285	A xiv
Brick-yard in. See Highgate.			Iron ore on	323	A xiv
Oil refineries in. See Ingersoll.			mining	139	x
Oxygen.			Minor refs. to	290, 292	A xiv
Manganese for producing	462	R C	lake, MICHIPICOTEN DIV.		
Notes on, by Copp	447	R C	Brulé patches on	296	A xiv
Proportion of, in earth's crust	447	R C	Iron ore on and near	256, 160, 161	viii ix
Oxhydrogen light.			limonite	324	A xiv
Lime used in making	6	B xiii	magnetite	200	x
Oyster; L. A.	52	x	mining. See Frances m.		
Oysters.			Length of	292	A xiv
Shells of, for road-making	104	iii	Minor ref. to	285	A xiv
			Ochre on, yellow	257	viii ix
			Rocks on and near	314, 323, 324, 344, 351, 354	A xiv
P 75 gold loc. See Baby, William B.			greenstone	302	A xiv
165 gold loc., ANZHEKUMMING LAKE, R. R. D.	85	vi	Trees near	296	A xiv
175, 190-194, 282 gold locs. See Gold Hill mine.			Striae near, direction	178	ix
188 gold loc., SHOAL LAKE, L. OF THE WOODS	107	vi	Painter, Robert K.		
192 gold loc. See Black Jack mine.			Notes by, on pyrites deposits of Virginia	192	A xvi
221 gold loc. See King gold mine.			J. & Sons.		
263 gold loc. See Bullion gold mine.			Labour employed by, statistics	370	R C
289 gold loc. See Wimor gold mine.			Paipoonge tp., TH. B. D.		
317 gold loc., L. OF THE WOODS, R. R. D.	182	v	Argentite in	194	ix
382 gold loc., ANZHEKUMMING LAKE, R. R. D.	85	vi	Silver mining on	200	R C
395 gold loc. See Norway gold mine.			See also Cariboo mine.		
400, 409 gold loc. See Treasure gold mine.			Lily of the Valley mine.		
444 gold loc., MIDDLE ISLAND, L. SUPERIOR	104	vi	Paisanite.		
447 gold loc. See Sweden Gold Mg. Co.			Essex co., Mass.	190	ix
566, 567 gold locs. See Regina gold mine.			Paisley, ELDERSLIE TP., BRUCE CO.		
577, 580 iron locs., NICKEL LAKE, R. R. D.			Bedded dolomites near	36	B xiii
Notes on, by Coleman	74	iv	Brick-yard at, notes and photo	59	B xv
	175	A xvi	clay for, analysis	15	B xv
656 gold loc. See Emperor gold mine.			Saugeen	19, 33	B xv
Pacey, Frank	200, 201	iv	Pakenham, PAKENHAM TP., LANARK CO.		
Pacific Coal and Oil Co.			Fossils from	224	x
Capital and date of charter	25	A xiv	Silurian rocks in	70	B xiii
Packer—?			Palæontology.		
Experiments by, on nickel-steel	139	ii	Value of, to a Survey	422	R C
Packfong (NICKEL ALLOY)			Palakod, PAPARAPATTI DIST., BURMA	233	viii
Composition of	163, 164	C xiv	Palæozoic.		
Packham, William James			Eastern Ontario	209	vii
Brick-making by, Brampton	89	B xv	Hudson bay, notes by Bell	246	v
			Notes by Miller	21-26	B xiii
			Sub-divisions of	2	R C
			Structure and distribution	5, 6	R C
			Systems underlying, order of	52	i
			Palisades silver mine, LYBSTER TP., TH. B. D.		
			Notes on, 1891	229	i
			Palladian islands, L. SUPERIOR.		
			Lower Slate conglomerate on, photo	136, 137	viii

	Page.	Vol.		Page.	Vol.
Palladium.			Pancake Bay mine, PANCAKE BAY, L.		
See also Sperrylite.			SUPERIOR.		
In sperrylite.....	190	ii	Area and description of.....	241-243	ii
Occurrences and uses.....	6-8 A	xiv	Fissure veins in.....	75	iii
Production, 1904.....	1-3, 6-8 A	xiv	Work on, by Silver Islet Co.....	73	iii
1904-6.....	6 A	xvi	creek, LARDER LAKE, NIP.		
1905.....	1-3 B	xv	Rocks on and near.....	207 A	xvi
Sudbury dist.....	153, 155, 162 C	xiv	greenstone, photo.....	209 A	xvi
Palliser, Capt. John			lake, NEAR LARDER LAKE, NIP.		
Description by, of a storm on Lac			Rocks on.....	208 A	xvi
des Mille Lacs.....	119	v	river, L. SUPERIOR, ALG.		
Notes by, on Kenora.....	169	v	Iron ore on.....	23	R C
Palmberg, Herr Th.			<i>Panenka canadensis.</i>		
Notes by, on peat production in			Anderdon tp.....	126	xi
Sweden.....	219, 220	ii	" <i>grandis.</i>		
Palmer, C.	87	ix	St. Marys.....	127	xi
Walter William				151, 152	xii
Paper by, on a pioneer's experi-				96 B	xiii
ences on Lakes Huron and			Panorama lake, W. OF RAINY LAKE,		
Superior.....	171-178	ii	R. R. D.		
rapid, MADAWASKA RIVER.			Keewatin rocks on.....	61	iv
Corundum at.....	221	vii	Pansway, William	139	viii
	222-224	viii	Papapatti dist., BURMA.		
Photo of.....	222	vii	Corundum of, notes by Holland.	232	viii
Waterpower of.....	66	vi	Paper.		
	219	vii	Calcium sulphate for making..	61, 62	x
tp., ALG.			Peat for making.....	35 A	xiii
Iron ores north of, notes by Cole-			Talc in manufacture of.....	24	x
man.....	189, 190	x	<i>Papilio turnus.</i> See Swallow tail,		
Palmerston tp., FRONTENAC CO.			yellow		
Chalcopyrite in.....	196	ix	Papineau creek, YORK RIVER.		
Field prospecting in.....	213, 218	v	Crystalline limestone on.....	222	viii
Geological features of.....	218	v	Syenite near.....	218, 220, 221	viii
Iron ore in.....	45	ii	Valley of, notes.....	221	vii
exhibited at World's Fair... ..	80, 81	ii	Waterpower of.....	218	vii
Iron ore in, hematite.....	139	R C	Papoose islands, GEORGIAN BAY, L.		
	199	ix	HURON.		
magnetite.....	218	v	Limestone in, notes.....	29 B	xiii
mining. See Lizzie m.			Paps, The, BLACK BAY, L. SUPERIOR.		
Wilbur m.			Rocks of, trap.....	15	v
Magnesite in.....	202	ix	Paquette rapid, ALLUMETTE ISLAND,		
Mica in.....	244	i	QUE.		
	203	ix	Black River formation at.....	104 B	xiii
Palmita Mg. and Development Co.			<i>Paracyclus elliptica.</i>		
Capital and date of charter.....	12	vii	Anderdon tp.....	125	xi
Palms iron mine, PENOKEE-GOGEIC			St. Marys.....	152	xii
RANGE, U. S.....	146	iii	Paradis bay, L. TIMISKAMING.		
Pam, Max	22	xi	Huronian rocks west of.....	40 B	xiv
Pan American Exhibition.			Paraffine wax.		
Feldspar at, from Bedford tp....	39	xi	As residue from petroleum.....		
Ferro-nickel at.....	62	x		155, 157, 164	R C
Graphite at, from Brougham tp.	25	x	Statistics of. See Oil, statistics.		
	27	xi	Paragrene (Insecticide).		
Nepheline rocks at.....	213	xi	Analysis of.....	116	xi
Ontario exhibit at, report by			<i>Parazyga hirsuta.</i>		
Speller.....	83-90	xi	Anderdon tp.....	125	xi
photos at.....	80, 81	xi	Paresseux rapid, KAMINISTIKWIA		
Panache lake, NIP.			RIVER, TH. B. D.		
Copper on.....	24	R C	Sphalerite in.....	209	ix
Limestone on, analysis and			Pardee, T. Blair	4	i
notes.....	29, 30 B	xiii	Pargasite.		
dolomite, notes.....	82	i	Renfrew co.....	194	ii
for burning....	94	i	Madawaska river, analysis....	206	ix
Quartzite on; syncline near.....	72	i	Parham, HINCHINBROOKE TP., FRON-		
Pancake bay, L. SUPERIOR.			TENAC CO.		
Mining locations on.....	69	iii	See also Boyd-Smith mine.		
See also Pancake Bay mine.			Diallage near.....	197	ix
Rocks on.....	78	iii	Gabbro near, notes by Miller....		
sandstone.....	68	iii		228, 229	viii

	Page.	Vol.		Page.	Vol.
Parham.—Con.			Park Bros. & Co.		
Hypersthene near.....	200	ix	Labour employed by, statistics..	370	R C
Limestone near, analysis	45 B	xiii	Steel output of, 1893	120	ii
Norite at	228	viii	Parker, Dr. F.	53	xi
micro-photo.....	216, 217	viii	M. L.	80	xii
Paris, Thomas			S. J.	110	ix
Gold prospecting by	105, 197	vii	Parkes, Mrs. A. W.	117	ix
Manager, Lizzie gold mine....	59, 60	viii		143	x
Paris, FRANCE.			Alexander		
Corundum from Ontario, exhi-			Nickel-steel made by.....	165 C	xiv
bited at	240	viii	Parkhill, W. WILLIAMS TP., MID-		
Gypsum near.....	119	R C	DLESEX CO.		
Mica from Ontario sold in (1860).	86 A	xvi	Artesian wells near	61	i
Peat-charcoal in, price of.....	207	i	Brick-yard at.....	80 B	xv
Peat pamphlet for Exhibition of,			Salt at.....	55, 186	R C
(1878).....	197	ii	Salt Co.		
Streets of, mahogany used in,...	104	ii	Operating, 1902.....	38	xii
Paris, MAINE, U.S.			1905.....	21 A	xv
Indicolite at	200	ix	1906.....	23 A	xvi
Paris, S. DUMFRIES TP., BRANT CO.			Parks, Alexander	224, 234, 235	vii
Alabastine Cos. works at	38	xii	Emily H.	75	xi
Gypsum at and near	110	i	G. F.	105	vii
analysis	56 B	xiii	101, 105	viii	
boring for.....	27, 28 A	xv	143	x	
evidence before R. C.....	121, 122	R C	75	xi	
mining, notes, 1891	243	i	67	xii	
1892	253	ii	49	xiii	
1893.....	196, 197	iii	William Arthur		
1894.....	250, 251	iv	Cobalt discoveries reported on,		
1895.....	280, 281	v	for Dominion Survey	203 A	xvi
1896.....	278, 279	vi	Determination by, of fossils from		
1897.....	99, 100	vii	Port Colborne	35	xi
1901	34 B	xiii	Notes by, on iron deposits E. of		
by Merritt....	119	R C	L. Nipigon	311	xii
Historical notes	113, 114	i	Paper by, on fossiliferous rocks		
Limestone at and near:—			of:—		
analysis	147	xii	Kwataboahagan river.....	180-191 A	xiii
15, 16 B	xiii		Southwest Ontario	141-186	xii
boulders for burning	149	xii	Reference to explorations by:—		
92 B	xiii		Abitibi dist.....	108 A	xiii
fossiliferous.....	91 B	xiii	197, 198, 205, 208 A	xiv	
Morainic deposits near	115 B	xiii	117, 122 A	xv	
Natural gas piped to	23 A	xv	Mattagami River dist.....	182, 185	x
25 A	xvi		Moose River basin.....	121, 158 A	xiii
Onondaga formation at.....	33 B	xiii	Reports by:—		
Travertine near.....	34 B	xiii	1894. Summer Mining classes.		
Waterworks at.....	148	xii	217-221	iv	
34 B	xiii		1897. Geology of base and		
Lyons and Meditteranee R'y.			Meridian lines in Rainy		
Tests by, on peat as fuel.....	203	i	River dist.....	161-182	vii
green.			1898. Nipissing-Algoma		
Arsenic for.....	29, 111	xi	boundary.....	174-196	viii
32 B	xiv		1899. Niven's base line....	124-142	ix
As a paint	120	xi	Work by, 1902.....	5	xii
As an insecticide.....	116, 117	xi	1903.....		
Composition, preparation and			xii, 135, 137, 142, 143, 168, 174 A	xiii	
uses.....	113	xi	lake, MICHIPICOTEN DIV.		
Notes on.....	69	xii	Iron on, hematite boulders	173	xi
Parisian isle, L. SUPERIOR.			mining	256	viii
Beaver farm on	110	v	104	xii	
Minor ref. to	172	ii	See also Josephine mine.		
Potsdam formation on.....	40	R C	Rocks on.....	158	ix
"Paristone."			Eleanor slates	158	xi
Gypsum used in.....	38	xii	iron bearing.....	195, 200	x
Park, E.	105	vi	173, 175	xi	
Mungo			lake, W. OF VERMILION LAKES,		
Smelting furnace found by,			R. R. D.		
Africa	355	R C	Notes on, by Parks.....	175	vii

	Page.	Vol.
Parks well, ANDERDON TP., ESSEX CO.		
Log of boring.....	42	B xiii
Parliament, Acts of See Acts of Parliament.		
Buildings, OTTAWA.		
Building-stone of.....	40, 79, 82	R C
	103, 104	B xiii
Buildings, TORONTO.		
Building-stone of.....	80	R C
<i>Parnassia palustris.</i>		
Mattagami valley.....	151	A XV
Parnell, Charles Stewart		
Evidence by, re royalties in Ire-land.....	36, 37	i
Parr, Mrs. S.	117	ix
Parry, George		
Smelting process of.....	321, 362	R C
and Mills.		
Blast furnace of.....	326, 394	R C
cost of iron production..	331, 332	R C
harbour, GEORGIAN BAY, L. HURON.		
Limestone of, notes.....	166	ix
	95	B xiii
island, GEORGIAN BAY.		
Appearance of, twisted.....	67	i
Pyrrhotite on, nickeliferous.....	261	viii
Rocks on, limestone.....	166	ix
	94	B xiii
petrography.....	181	ix
Sound, McDougall TP., P.S.D.		
Copper at and near:—		
bornite and chalcocite....	195, 196	ix
pyrites.....	37	iv
Electric furnace at.....	115	xii
Graphite at.....	199	ix
Mining class at.....	282	viii
Recorder's office at.....	36	A xvi
Rocks at and near.....	99	iv
age.....	169	ix
limestone.....	93	B xiii
sound, L. HURON.		
Malachite on.....	202	ix
Sound Copper Mg. Co.		
Accident at mine of.....	32	ix
Acknowledgments to.....	143	ix
Capital and date of charter.....	10	ix
Work by, 1898.....	259-262	viii
1899.....	100, 167, 170, 171	ix
1900.....	120, 121	x
1901.....	267	xi
1904.....	80	A xiv
Sound dist.		
Apatite in, possibility of.....	94	i
Brick yards in, notes on.....	88, 89	B xv
Copper in, mining, 1899.....	100	ix
1900.....	120, 121	x
1901.....	267	xi
1902.....	115, 116	xii
1903.....	93, 94	A xiii
See also McGowan mine.		
report by Coleman.	259-262	viii
	164-172	ix
Mica mining in.....	279	v

Parry Sound dist.—Con.

	Page.	Vol.
Mining lands in, statistics of sales and leases, 1891.....	7, 8	i
1892.....	7	ii
1893.....	5	iii
1894.....	10	iv
1895.....	9	v
1896.....	10	vi
1897.....	14, 15	vii
1898.....	10	viii
1899.....	11	ix
1900.....	10	x
Peat in.....	191	i
	209	ii
Rocks in, anorthosites.....	11	R C
limestone.....	92	B xiii
petrography.....	180-182	ix
Striae in, direction.....	178, 179	ix
Sound Mining div.		
Creation of.....	36	A xvi
Description of.....	44	A xvi
Parsons, Henry		
Mica mining by, L. of the Woods.	64	R C
Silver mining by, Paipoonge tp..	229	i
Partington, J. A.	96	x
Thomas.	124	vii
Partridge, E. T.	105	viii
L. W.		
Gold mining by, Jaffray tp.....	186	v
	49	vi
	57	vii
Partridge.		
Abitibi dist.....	253	A xiv
decrease.....	186, 193	viii
Harold lake.....	146	v
Michipicoten div.....	200	A xv
Mississagi river.....	172	xii
Nipigon Lake dist.....	139	A xvi
Niven's base line, Alg., scarce...	142	ix
spruce.		
Abitibi river, south of.....	189	xii
creek, PARTRIDGE LAKE, SEINE RIVER, R. R. D.		
Notes on; gold prospecting near.	73	vi
Photo of portion of... ..	32, 33	vi
=crop (BINCOMODAI) lake,		
BLANCHE RIVER, NIP.		
Description of, by Bolton.....	174	xii
gold mine, PARTRIDGE LAKE, SEINE RIVER, R. R. D.		
Granite in, altered.....	87	v
Quartz of, character.....	36	iv
inlet, P. S. D.		
Blotched diorite on.....	94	B xiii
island, MINAS BAY, N. S.		
Chalcedony on.....	224	vi
lake, BREMNER RIVER. See		
Peenay lake.		
lake, SEINE RIVER, R. R. D.		
Gold on.....	26	R C
character of ore.....	62	R C
mining.....	4	Bull. i
	73, 267	vi
Huronian schist on.....	73	vi
=nest portage, MISEMIKOWISH LAKE, NIP.		
Description of, by Miller.....	223	xi
<i>Parus atricapillus. See Chickadee.</i>		

	Page.	Vol.
<i>Parus hudsonicus.</i> See Chickadee, Hudsonian		
Pascoe, Peter.	239	iv
	225	v
W. B.	28	iii
	182	v
Pashoskoota river, MISSINAJBI RIVER, ALG.....	145	A xiii
	286, 344, 393	A xiv
Paskon Indian Reserve. Area of.....	167	v
Pasley, Sir C. W.	188	A xiv
Passage, The, L. OF THE WOODS, ONT. Gold mining on.....	114	vii
Minor ref. to.....	181	v
Passaic river, NEW JERSEY, U. S. Waterpower of.....	485	R C
<i>Passer domesticus.</i> See Sparrow, house		
<i>Pas erina cyanea.</i> See Bunting, Indian		
Passy, P. H.	45	xi
Paterson, M. J. Iron prospecting by, near Penin- sula.....	135	viii
R. H.	47	A xiii
Paterson, PASSIAC CO., N. J. Waterpower at.....	485	R C
Patomagetons. Moose River basin.....	177	A xiii
Paton copper mine. See Peyton copper mine.		
Pattee, G. I.	117	ix
	143	x
Patterson, A.	61	viii
D. C.	105	viii
	143	x
G. H.	95	viii
H.	44, 64	viii
	49	ix
	74	x
J. C.	87	x
John	222	ix
Reddie	125	v
Pattison, R. M. Copper prospecting by, Th. B. d.	78	A xi i
Patton lake, McMAHON TP., ALG. Copper mining on.....	273	xi
tp., ALG. Copper mining in.....	41	A xvi
Pattullo, Dr. Alexander Sandstone quarries of, Credit Forks.....	74, 79	R C
See also Scott and Pattullo.		
Paudash lake, CARDIFF TP., HALI- BURTON CO.	215	viii
Paul. See Paulson, Paul		
Paul (INDIAN).	242	v
lake, STURGEON RIVER, NIPISS- ING LAKE. Rocks on.....	69, 84	i
Paulet cape, BRUCE CO. Clinton formation at.....	36	B xiii
Pauly, Dr. Peter August.	82	xi
Paulson iron claims, NEAR ARROW LAKE, PIGEON RIVER DIST.	20	xii

	Page.	Vol.
Paulson, Paul Manager, Giant mine.....	92	xii
	67	A xiii
	53	A xiv
Mining by, Manitou lake.....	123	vii
	247	xi
bay, L. TIMISKAMING, QUE. Shape of.....	36	B xiv
Pavements. See Street pavements.		
Paving-brick. See Brick, vitrified stones.		
Canada, production, 1886-87....	243	R C
Madoc tp.....	87	R C
Pawatik river, VERMILION RIVER. Galena and zinc-blende on.....	91	i
Paxton iron mine, LUTTERWORTH TP., HALIBURTON CO. Notes on, by J. B. Campbell....	132	R C
Ore from, at World's Fair.....	79	ii
Production of.....	61	ii
Payen, Marie	63	B xiv
Paymaster gold mine, ANZHEKUM- ING LAKE, R. R. D. Notes on, 1904.....	54	A xiv
1905.....	52	A xv
1906 and photo.....	43, 58	A xvi
Payne, H. B.	170	C xiv
river, NATION RIVER. Marine deposits on.....	219	x
Peat on, sources of.....	190	i
Trenton formation on.....	111	B xiii
Pays Plat, NIPIGON BAY, L. SUPER- IOR. Silver at.....	267	v
Pea. Mentioned as growing at:— Abitibi lake.....	50	A xvi
Fort Mattagami.....	121	A xiii
Lac des Mille Lacs.....	114	v
Pringle tp.....	170	ix
Wabigoon.....	62	v
Wanapitei Lake dist.....	137	vii
wild Abitibi Lake dist.....	241	A xiv
Peace, G.	493	R C
M. W.	507	R C
Pearce, T. B. See Pearce gold mine. T. P. Owner, Blairton iron mine.....	21	ii
(SEVERN) gold-arsenic mine, MARMORA TP., HASTINGS CO. Minor ref. to.....	197	xi
Mispickel in.....	104	xi
Notes on, by Blue.....	53	iii
Work at, 1902.....	110	xii
1904.....	76	A xiv
See also Atlas Arsenic Co.		
Pearl (PEARL RIVER), L. SUPERIOR, TH. B. D. Copper mining near. See Black Bay Mg. Co. Galena near.....	38	R C
spar. Clinton tp.....	73	B xiii
Composition of.....	529	R C
Pears, John Brick-making by, Davisville....	29	xii
	110	B xv

	Page.	Vol.		Page.	Vol.
Pearson, Capt. Hugo			Peat.—<i>Con.</i>		
Armour-plate tests conducted by.	143	ii	Brockville, analyses.	203	xii
W. H.	108	ix	company formed to		
	154	A xiv	work.....	227	A x
Peat.			idle, 1903..	29	A xiii
Analysis of.....	166	vi	notes.....	205, 206	xii
Canada, paper by Ells.....	195-200	ii	photo, facing.....	192	xii
Composition of.....	183	i	Carleton co.....	190	i
Dartmoor, Eng., experiments on.	207	ii		197	ii
Description of.....	539	R C		190	vi
	219	vi	l istribution of.....	178	i
Europe.....	187-189	i		197, 209	ii
	211, 212	ii	Eby tp.	179	xii
	197-200	xii	Hawkesbury tp.....	122	A xiv
32, 33	A xiii		Hudson Bay slope, inexhaustible.	70	R C
Exhibited at Buffalo.....	87	xi	Industry of, 1897.....	22, 23	vii
Chicago.....	193	ii	1899.....	21-24	ix
For fuel, calorific power. . . .	166	vi	1904.....	22, 23	A xiv
compared to wood and			Kesagami lake, analysis.....	175	A xiii
anthracite.....	200	ii	notes by J. M.		
efforts to produce.....	32	iv	Bell. 148-150, 174	A xiii	
25	A xvi		photos. 144, 145, 151	A xiii	
method of preparing. 191-206	i		Mattagami valley.....	188-192	A xiv
production, 1903.....	3, 4	A xiii	120, 125-128, 142, 151	A xv	
1904... 1, 3, 23	A xiv		Michipicoten River, photo.....	197	A xv
1905..... 1, 4	A xv		Moose River basin.....	174	A xiii
1906..... 25	A xvi		Muskego (Swampy) river.....	134	ix
For moss-litter:—			Newington, analysis... ..	203	xii
Holland, price.....	197	ii	notes.....	219, 227	x
New Brunswick.....	199	ii	208, 223	xii	
notes by Blue.....	33, 34	iv	30	A xiii	
Copenhagen Milk Co.			photos.. ..	208	xii
211, 212	ii		Nipigon Lake dist.....	135	A xvi
paper on, by Jack.....	139-144	iii	Paint lake.....	324	A xiv
uses.....	121	iv	Board Co.		
For paper.....	35	xii	Notes on, 1903.....	35	A xiii
Manufacture of.....	205, 215	ii	charcoal.		
	122	iv	Value of, for furnaces.....	207-209	i
paper by Carter. 191-234	xii		Development Syn.		
* 27-35	A xiii		Capital and date of charter.....	11	xi
Gibson. 180-211	i		Exhibit of, at Buffalo.....	90	xi
203-208	ii		See also Peat Industries, Ltd.		
Origin and nature of.....	182	i	Fuel Syndicate.....	114	x
	198	ii	Industries, Ltd.		
Prince Edward island.....	201, 210	ii	Capital and date of charter.....	11	xi
Report on, by Geological Survey,			Exhibit of, at Buffalo.....	87	xi
ref. to.....	206	ix	Peat machinery of.....	200, 234	xii
Abitibi dist.....	190	viii	Plant of, diagrams.....	109	xi
190, 101, 194, 209, 217	A xiv		notes.....	30	A xiii
125, 126	A xv		Property of, Welland, notes....	203	xii
analyses.....	246	A xiv	Prospectus of, notes from.....	231	xii
	128	A xv	island, KESAGAMI LAKE, NIP.		
Albany River dist. (north)....	116	iv	Minor ref. to.....	148	A xiii
Atikokan river.....	146	xi	Photo of.....	144, 145	A xiii
Beaverton, analysis.....	202	xii	Machinery Supply Co.		
fuel from.....	25	A xvi	Cost given by, of briquetting....	225	xii
cost of making..	225	xii	Experiments by, on peat.....	200	xii
method of working..			Machinery supplied by, ref. to..	208	xii
210-214, 217, 218, 224	xii		meal OR Peat litter. See		
notes.....	204	xii	Moss litter.		
paper from.....	35	xii	Peavey, P. H.	31	xi
plant, notes.....	22	ix	Pebble vein, GOLD HILL MINE, L.		
27, 29	A xiii		OF THE WOODS.		
output.....	23	A xiv	Work on, 1896.....	251	vi
24	A xv		1897-8.....	37	vii
photo.....	208, 209	xii	Pebonishewening lake, E. OF RICE		
			LAKE, ALG.....	131	ix

* First issued as Bull. No. 5.

	Page.	Vol.		Page.	Vol.
Pechonegoness lake, MICHIPICOTEN			Pelican lake, BURGESS TP., LANARK		
DIV., ALG.			CO.		
Wrongly mapped	198	vii	Apatite on	180	R C
Peck, A. L.	74	xi	lake, MINNITAKI LAKE, R.R.D.		
Peckham, S. F.			Geology of, and vicinity....	167, 168	B vii
Views of, re origin of gas and oil.	95	A xiv	Glacial striae on	88	v
<i>Pecten islandicum.</i>			Gold on	178	vii
James bay.....	143	A xiii	Photos of	124, 125	vii
Pectolite.			Rocks on	95	v
McKellar pt.	206	ix	Route from, to Lonely lake... 59, 60		v
Thunder bay	194	ii	lake, RUGBY TP., R. R. D.		
Peebles, George	92	iii	Rocks on	169	vii
Peel co.			Soil in vicinity of	175	vii
Beach in	229	A xiii	Timber near.....	181, 182	vii
Brick-yards in, notes	89-91	B xv	rapid, PELICAN RIVER, R.R.D.		
Limestone in, notes by Miller... 95		B xiii	Rocks near	95	v
tp., WELLINGTON CO.			river, WABIGOON RIVER, R.R.D.		
Gas in, log of bore-hole	110	A xv	Rocks on.....	169	vii
Oil in, boring for.....	24	A xiii	Soil in valley of	175	vii
Onondaga limestone in.....	122	B xiii	and timber	182	vii
Trenton formation in. <i>See</i> Alma.			Pelkonen, William	40, 41	A xiii
Peenay (Partridge) lake, BREMNER			Peller, Thomas	71	ix
RIVER.			Pelletier, E.	25	ix
Altitude of.....	136-138	viii	Pelley, W.	143	x
Peep bay, MANITOU LAKE, R.R.D. ..	87	vi	Pellow, H.	117	ix
Peerless Larder Lake Mines.				143	x
Capital and date of charter	28	A xvi	Peloux, M. du		
Rocks on claims of.....	210	A xvi	Notes by, on nickel mining, New		
silver mine, GILLIES TP., TH.			Caledonia	373	R C
B. D.....	199	R C	Pembina island, KENOGAMI RIVER.		
Pegmatite.			Argillaceous beds on.....	32, 33	B xiii
Description of.....	539	R C	Pembroke, PEMBROKE TP., REN-		
Foley tp.....	99	iv	FREW CO.		
	168	ix	Brick-yards at	96	B xv
Hastings corundum dist.	212	vii	clay for, analysis.....	27	B xv
	215	viii	Saugeen .. 19, 20, 33		B xv
	205	xi	Chazy limestone at, analysis....	105	B xiii
Kingston dist., feldspar in dikes			Pembroke channel, OTTAWA RIVER.		
of, for pottery	205	ix	Navigation at	104	B xiii
L. Superior, N. of Montreal river.	131	viii	Penck, Prof. A.	144	vii
Larder Lake dist.....	210	A xvi	Penetanguishene, TINY TP., SIMCOE		
McConkey tp.....	170	ix	CO.		
Molybdenite lake, Michipicoten			Brickyard at.....	99, 100	B xv
div.....	354	A xiv	Drift around.....	109	B xiii
Notes on, by Miller	234	vi	Island opposite, character of....	67	i
Salem dist., Madras pres.....	232	viii	Penewabacong river, L. HURON.		
Tip-top mt., Michipicoten div... 142		viii	<i>See</i> Blind river.		
Ural mts	235	viii	Penfield, Prof. S. L.		
Pekangoming lake, TURTLE RIVER,			Analysis by, of pentlandite....	159	C xiv
R. R. D.....	127	vii	Sperryllite named by	282	xii
Pekin, NIAGARA CO., N.Y.			Views of, on folgerite, Sudbury		
Experiments at, on peat.....	197	i	dist.....	281	xii
Pelee Gas and Oil Co.				160	C xiv
Work by, 1895.....	5	v	Pengilly, F. C.		
island, L. HURON.			Cyanider, Mikado mine.....	64, 66	viii
Anticline beneath.....	105	ix	Manager " "	53-56	ix
Limestone quarries at	101	i	resignation	77	x
analysis and notes	41-43	B xiii	John	152	ix
<i>See also</i> Anderdon.			Penhallow, Prof. D. P.		
Oil in, boring for.....	5, 25	v	Views of, on age of marine fos-		
log.....	117	A xiv	sils in Ontario	226	x
production, 1906.....	24	A xvi	Peninsula, L. SUPERIOR, TH.B.D.		
pt., L. ERIE.			Beach at, height of	193	vii
Borings at, for gas	20	x	Building-stone quarries near....	113	vi
proposed	105	ix	Description of vicinity.....	133	vii
Peletard—?			Iron sand near	83	vii
Ref. to map by, of New Cal-				142	xi
edonia.....	149	ii	mining	87	ix

	Page.	Vol.		Page	Vol.
Peninsula.—Con.			Penrose, R. A. F.		
Pleistocene deposits near	111	vi	Paper by, on Apatites of Canada.	436-443	R C
Rocks at and near.....	135, 167	viii	Pens (steel nibs). See Nibs.		
nepheline-syenite	208	xi	Pense, E. J. B.	178	iii
shewn at Buffalo. 87		xi	<i>Pentamerella arata.</i>		
petrography.....	147-149	vii	" Anderdon tp.....	125	xi
lake, MISSISSAGI RIVER, ALG.			<i>Pentamerus.</i>		
Description of.....	167	xii	Abitibi river.....	187	viii
Peninsular gold mine, MANITOU			Nassagaweya tp.....	57 B	xiii
LAKE REG., R. R. D.....	92	xii	" oblongus.		
Mg. and Development Co.			Esquesing tp.....	58 B	xiii
Capital and date of charter	12	vii	Hamilton, near.....	123 B	xiii
Oil and Gas Co.			Sydenham tp.....	49 B	xiii
Capital and date of charter	37 A	xiii	Thorold	117 B	xiii
Penn Cobalt Mining Co.			Pentila, Michael	25 A	xiv
Capital and date of charter	28 A	xvi	Pentlandite.		
Pennock, Homer			Composition of.....	168, 170	ii
Tin swindle by	139	viii	Notes by Goodwin	213	vi
Pennsylvania, U. S.			Sudbury dist.....	278	xii
Brick pavements in cities of	108	iii		14, 15 C	xiv
Coal in, anthracite, analysis.....	5 Bull.	ii	analysis	159 C	xiv
	163	vi	Worthington mine. 206		ix
quality	263	xii		31 C	xiv
calorific power.....	207	ii	Peoria, PEORIA CO., ILL.		
production, 1888.....	525	R C	Brick pavement of	112	iii
Corundum in	241	viii	Pepperwell, SOUTH OF BOTHWELL.		
Diamond drill used in, 1870.....	164	iii	Notes on, by Newell.....	23, 24	vi
Geological Survey of, notes by			Perak state, STRAITS SETTLEMENTS.		
Walker.....	422	R C	Mining royalties in.....	43	i
Iron ores of.....	474	R C	Perch.		
industry, paper on. 117.	118	ii	Abitibi dist.....	127 A	xiii
production, cost.....	402	R C	river	253 A	xiv
	10	i	Larder and Headquarters lakes..	221	xi
royalties on.....	12	i	lake, SEINE RIVER, R. R. D.		
Mining lands in, notes on tenure. 226		ii	Description by Blue.....	149	v
Moraine in.....	123, 124	ix	Minor ref. to.....	69	v
Natural gas in	151, 152	R C	Percy, Dr.		
	114, 115, 146, 149	i	Experiments by, on nickel-al-		
exhaustion.....	158, 210	i	loys	382, 383	R C
Oil in	141	i	ref. to.....	165 C	xiv
quality.....	162, 163	R C	Notes by, on:—		
Paleozoic rocks of	5	R C	iron smelting.....	356, 357	R C
Portage and Chemung formation			metallurgy of steel.....	362, 363	R C
in.....	47	R C	peat fuel.....	208	ii
Snales of, analyses	120	iii	island, L. TIMISKAMING	85 B	xiii
Cobalt Silver Mines.			Mining Co.		
Capital and date of charter	29 A	xvi	Capital and date of charter	12	vii
Feldspar Co.			tp., NORTHUMBERLAND CO.		
Notes on operations of, 1902	137	xii	Gravel deposits in. <i>See</i> Wark-		
Operating, 1902	38	xii	worth.		
1903.....	21 A	xiii	Peridot. See Chrysolite.		
1905	102 A	xv	Peridotite.		
Steel Co.			Abitibi dist., petrographical		
Analysis by, of iron ore, Bel-			notes.....	211 A	xiv
mont tp.....	60	ii	Appalachian mts.....	242	viii
Tube Works, PITTSBURG.			New Caledonia.....	147, 148,	xiv
Iron output of, 1893.....	119	ii	Sudbury dist.....	121 C	xiv
Labour employed by, statistics..	370	R C	<i>Perikorens canadensis. See</i> Canada Jay.		
University.			Peristerite. See Albite.		
Notes on, by Richards.....	512	R C	Perley, George H.	23 A	xiv
Penny, H. L.	105	vii	Permian system.		
Penokee and Gogebic Con. Mines.			Definition of.....	539	R C
Bankruptcy of.....	146	iii	Perrault, P. E.	105	vii
=Gogebic dist., MICH. AND			Perry, E. W. C.	63 A	xv
Wis.			F. L.....	143	x
Geological nomenclature of.....	271 A	xiv		75	xi
Geology of, paper by Coleman ..	195-199	x			

	Page.	Vol.		Page.	Vol.
Perry, Frank M.			Petawawa river, OTTAWA RIVER.		
Manager, Superior Copper Mg.			Mica on.....	151	R C
Co.....	274	xi	Nomenclature of	220	i
	100	xii	Waterpower of	252	vii
	38, 41, 62	xiv	Peter (INDIAN CHIEF).		
	72	A xvi	Minor ref. to.....	115	v
R. I.	143	x	Notes on, by Blue.....	134, 135	v
	75	xi	Photo of	80, 81	vi
W. F.	195	viii	Bell Iron Co.		
	117	ix	Iron mining by, McNab tp.....	141	R C
bay, KABENUNG LAKE, ALG.			Bell iron mine, BATCHAWANA		
Iron formation on and near.....	315, 330	A xiv	BAY, L. SUPERIOR.....	23	R C
mill, MARBLE LAKE, FRONTENAC			Peterboro, N. MONAGHAN TP., PETER-		
CO.			BORO CO.		
Rocks at and near.....	186, 202	xi	Beet-sugar factory at, built of		
rapid, MISSISSIPPI RIVER, ONT.			limestone.....	4	B xiii
Gold mining near, <i>See</i> Star of			Brick-yard at, analysis of clay		
the East mine.			used in.....	15	B xv
tp., P. S. D.			notes and photo. 94, 95	B xv	
Rocks in northern portion of....	171	ix	Hydraulic lift-lock at, photo...16, 17	B xiii	
Persia.			Natural gas at, boring for, pro-		
Arsenical ores in	102	xi	posed.....	21	x
Perst, RUSSIA.			co.		
Peat manufactured at.....	218	ij	Corundum in.....	207-230	vii
Perth, DRUMMOND TP., LANARK CO.			sketch map showing.....	207	vii
Apatite deposits in vicinity of.			County map of, inaccurate.....	227	A xiii
53, 167, 177,	178	RC	Iron ores of, chromium in.....	233	vii
Brick-yard at, notes on.....	76	B xv	Limestone in, notes by Miller...	97	B xiii
Fossil tracks at.....	40	R C	lake, PETERBORO CO.		
Mica mining near	290	xi	Iroquois beach on	233	A xiii
	84	A xiv	Peterborough Peat Co.		
	106	A xv	Capital and date of charter.....	5	xii
	23	A xvi	Sandstone Brick Co.		
works at.....	135	x	Capital and date of charter.....	26	A xv
	28, 291	xi	Peters, Alfred.	134	viii
	85	A xiii	Dr. Edward D.		
Peat bog near, analyses and notes.			Evidence by, before R.C. <i>re</i> :		
203, 204	xii		Canadian Copper Co.....	103, 104	R C
photo of works... 208	xii		mining laws	310	R C
Perthite first found at.....	188	ii	Sudbury nickel mining....	404, 405	R C
named after	225	vi	tariffs.....	232	R C
Spodumene near.....	210	ix	German system of smelting fav-		
Amboy, MIDDLESEX CO., N. J.			oured by.....	374	R C
Reduction works at.....	11	A xvi	Millerite found by, Copper Cliff m.	281	xii
co.				159	C xiv
Limestone in, Corniferous.....	25	B xiii	Notes by, on blast furnace smelt-		
notes by Miller... 95	B xiii		ing.....	376	R C
mica mine, N. BURGESS TP.,			Paper by, on smelting copper-		
LANARK CO.			nickel ores.....	234-236	i
Description and section of.	148	R C	Photo of	136	C xiv
Perthite.			Work by, Sudbury dist.....	379	R C
Analysis and occurrences	206	ix		50, 139, 140	C xiv
Composition of.....	225	vi	J.	198	R C
For sleeve links, brooches, etc..	188	ii	William		
North Burgess tp.	194	ii	Manager, Bad gold m.....	56	vii
	206	ix	Mill manager, Empress gold		
Peru.			m.....	110, 111, 264, 265	vi
Apatite in guano beds of.....	441	R C	Harold Lake gold m.....	69	v
Nickel coinage in.....	161	ii	Hillier gold m.....	156	v
claim, MICHIPICOTEN DIV.,			Kenora Reduction works..	98	viii
ALG.....	113	x	lake, NOISY RIVER, L. SUPERIOR.		
	73	xi	Rocks on and near	202, 205	A xv
Petalite.			Iron formation.....	178, 204	A xv
Toronto.....	194	ii	Petersen, E.	236	v
	206	ix	Frank		
Utoe island, Sweden: Elba; and			Manager, Black Eagle gold		
Bolton, Mass.....	472	R C	mine.....	16, 80, 254	xi
			Manhattan gold mine. 274	viii	
				71	ix
				83, 84	x

	Page.	Vol.
Peterson, H. C.	62	ix
O.	143	x
Peter	54, 57	xi
W.		
Ref. to work by, on iron ore concentration	341	xii
lake, COLEMAN TP., NIP.		
Diabase on, character.....	27	B xiv
Hydraulic plant on.....	79	A xv
photo.....	81	A xv
Keewatin near	44	B xiv
Silver veins on	26	B xiv
Lake Silver Cobalt Mg. Co.		
Capital and date of charter.....	29	A xvi
Work by, 1905.....	81	A xv
Petite Nation river. See Nation river.		
Petits Ecrits, L. SUPERIOR.		
Terraces near, photo	204, 205	vii
Petitsikapau lake, LAB.		
Analysis of anthraxolite from... ..	162	vi
Petoskey, EMMET CO., MICH.		
Limestone from, analysis	13	B xiii
for Sault Ste. Marie.....	98	xi
<i>Petraia.</i>		
Gore Bay.....	77	B xiii
Petrie, D. C.		
Gold mining by, Manitou Lake dist.....	63	ix
<i>Petrochelidon lunifrons.</i> See Swallow, cliff		
Petrography.		
Importance of, in testing rocks for building material.....	136	iii
Notes on, by Coleman	145-150	B vii
.....	179-182	ix
Anorthosite, Seine River dist. 99, 100		v
Breccia, Sudbury dist.....	85	i
Conglomerate, Seine River dist. 96-98		v
Diabase, Silver islet	105	v
Sudbury dist.....	77, 78	i
Diorite, Foley tp.....	99	iv
Granite, Cobalt dist.....	45	B xiv
Seine River dist.....	101	v
Greywacké, Animikie iron range. 159		A xv
Greenstone, Michipicoten div.....	302	A xiv
Heronite.....	187-189	ix
Limestone, Opasatika river.....	150	A xiii
Micro-norite group, Sudbury dist.....	214, 215	A xiii
Nepheline-syenite, Hastings dist.	250-253	viii
Pegmatite, Ural mts.....	285	viii
Phyllites, Michipicoten div.....	310	A xiv
Quartzite, Aberdeen tp.....	77	A xiii
Quartz-porphry schist, Michipicoten div.....	303, 304	A xiv
Syenite, L. Superior.....	211	ix
Various rocks from the following:		
Abitibi dist.	116-121	A xiii
	209-212	A xiv
Blanche River dist.....	228, 229	xi
Iron ranges, Animikie....	158-168	A xv
Negaunee, Mich.....	151	ix
Ontario	204-210	x
northwestern....	143-147	ix

	Page.	Vol.
Petrography. — <i>Con.</i>		
Lake of the Woods.....	121-124	vi
Mattagami valley.....	132-135	A xv
Michipicoten div.....	175-184	xi
	340-355	A xiv
Minnitaki Lake dist.....	95, 96	v
Mississagi River dist.....	169-171	xii
Moose River basin.....	139-141	A xiii
Nipigon Lake dist.....	129, 130	A xvi
North of Lake Huron and Superior, Huronian areas.....	169-174	vii
Parry Sound dist.....	180-182	ix
Rainy Lake dist. paper by Coleman.....	77-96	iv
Shebandowan Lake dist., notes by Coleman.....	95, 96	v
Sturgeon lake, Th. B. d.....	105, 106	xii
Sudbury dist.....	289-298	xii
	208-213	A xiii
	107-134	C xiv
Thunder Bay dist.....	179, 180	ix
Wabigoon Lake reg.....	182, 183	vii
Petrolea, ENNISKILLEN TP., LAMBTON CO.		
Brick-yard at, notes.....	74	B xv
Corniferous formation at, thickness.....	47	R C
Hamilton formation at, thickness.....	112	A xiv
Lower Helderberg formation at, thickness.....	96	A xiv
Oil at and near.....	24	v
area.....	111, 114	A xiv
boring for.....	18	x
records.....	113	A xiv
wells, number.....	25	v
	89, 90	A xiv
early experiences.....	165	R C
evidence before R. C. 55, 153-156, 159, 161.....		R C
exchange, organization.....	161	R C
industry, 1895.....	5	v
1899.....	107	ix
1901.....	40, 41	xi
prices, 1895.....	23	v
production 1891-94.....	26	iv
1893.....	9	iii
1895.....	21	v
1905.....	108	A xv
1906.....	23, 24	A xvi
refining works.....	40	xii
Onondaga formation at, thickness.....	96	A xiv
Portage-Chemung formation N. of.....	99	A xiv
Salt at, boring for.....	186	R C
evidence before R.C....	55	R C
Trenton formation at.....	113	A xv
Oil Co.		
Works of, notes by Blue.....	27	v
Petrosilex.		
Definition of.....	539	R C
Petroleum. See Oil.		
Petrolia Crude Oil Tanking Co.		
Notes on, by Noble.....	165	R C
Operating, 1897.....	17	vii
Gas Co.		
Capital and date of charter.....	26	A xv
Pettet, W. F.	105	viii

	Page.	Vol.		Page.	Vol.
Pettigrew, W. D.			Phillips mine, MICHIPICOTEN ISLAND.		
Gold mining by, Seine River dist.	93	viii	See Phillips, G. A.		
	35, 79, 80	ix	Mining Supply Co.	120	ii
Pettit, R.	143	x	Nimick & Co.		
	75	xi	Iron output, 1893	120	ii
	67	xii	Labour employed by, statistics..	370	R C
	49 A	xiii	<i>Phillipsastraea billingsii.</i>		
<i>Petula papyracea.</i> See Birch, white			Cayuga N. tp.....	146	xii
Pewabic, L. SUPERIOR, U. S.			Rockford.....	143	xii
Hematite at, treatment of	338	xii	“ <i>gigas.</i>		
lake, R. R. D.			Kwataboahegan river	181 A	xiii
Iron formation near.....	130	xi	“ <i>verneuli.</i>		
Pewee, wood			Kwataboahegan river	181 A	xiii
Abitibi dist.....	126 A	xiii	Anderdon tp.....	124	xi
Peyton (PATON) copper mine,			Phillipsburg, N. J.		
“ WHISKEY LAKE, ALG.			Paving clay from, analysis.....	120	iii
Minor ref. to.....	86	xi	“ Philomel” H. M. S.	218	i
Notes on.....	65, 66 A	xiv	Phinney, Dr. A. J.	151	R C
Pfau, Fred.	96	xii	Phippen, S. H.	99	vii
	58 A	xv	Phlogopite.		
<i>Phacops bufo.</i>			Analysis of.....	83 A	xiv
Anderdon tp.....	125	xi	Composition and description of.	226	vi
Cayuga N. tp.....	146	xii	Occurrences of. See Mica.		
Springvale.....	144	xii	<i>Phoca grælandica.</i>		
“ <i>cristata.</i>			Greens creek, near Ottawa	224	x
Kwataboahegan river	190 A	xiii	Phoebe (BIRD).		
“ <i>rana.</i>			Abitibi dist.....	126 A	xiii
Cayuga N. tp.....	146	xii	Phoenix Gold Mg. Co.		
Springvale.....	144	xii	Capital and date of charter.....	9	xii
Stony pt., L. Huron.....	155	xii	Phoenixville, U. S.		
<i>Phegopteris dryopteris.</i>			Copper smelting at.....	377	R C
Mattagami valley	151 A	xv	Pholerite.		
Phelan, DOWLING TP., ALG.			Mode of occurrence	207	ix
Nickel-bearing eruptive near....	210 A	xiii	<i>Pholidostrophia iowaensis.</i>		
“ siding, NEAR ONAPING, ALG.			Thedford.....	154	xii
Beach at, altitude.....	103 C	xiv	Phosphate of lead. See Pyromorphite.		
Gravel plain around.....	106 C	xiv	lime. See Apatite.		
Philadelphia, U. S.			Phosphorus.		
Brick pavements in.....	108, 109	iii	Description of.....	448	R C
Coal gas of, quality	163	iv	Effect of, on iron ores.....	364, 467	R C
production.....	164	iv		88	ii
Nickel exhibited at, 1876.....	381	R C	Elimination of, from iron ores.	91, 92	ii
	135	ii	Great Britain, in iron ores....	87, 88	ii
and Reading Coal Co.	42	i	Percentage of, in coal, coke and		
Philip, W. Marshall	48	ix	charcoal.....	483	R C
Edward island, GEORGIAN BAY,			Photogen.		
L. HURON.			Peat for.....	215	ii
Rocks on.....	68	i	<i>Phryganea ejecta.</i>		
portage, OPASATIKA RIVER... 136 A	xiii		Greens creek, near Ottawa.....	224	x
Philipeck, A.	167	iii	Phyllites.		
Phillips, Alexander	29	ix	Bath island, L. of the Woods... 104	vi	
Arthur			Michipicoten div., notes by J. M.		
Views of, re origin of metalliferous			Bell.....		
veins.....	172	i	306, 307, 343, 344 A	xiv	
Prof. Francis C.			petrography .	310 A	xiv
Analysis of gas, Welland co.	106	ix	Wabigoon Lake dist.....	183	vii
bituminous coal.....	166	vi	<i>Physorpus opulifolius.</i>		
George A.			Mattagami valley	150 A	xv
Copper mining by, Michipicoten			Pic Copper and Gold Mining Co.		
island	60	R C	Capital and date of charter.....	9	x
	143	viii	island, L. SUPERIOR.		
Iron mining by, near Madoc....	32	viii	Devonian pebbles near	157	viii
J. Arthur			Syenitic rocks on	208	xi
Notes by, on calorific power of			with nepheline... 205	ix	
carbon and hydrogen.....	185	i	Zircon on.....	212	ix
W. B.			river, L. SUPERIOR.		
Ref. to work by, on treatment of			Gold mining on.....	115	R C
magnetic iron ores	338	xii	See also Heron bay.		

	Page.	Vol.		Page.	Vol.
Pic river.—Con.			Pickering tp., ONTARIO CO.		
Iron ore on.....	145	R C	Nepheline-syenite in. <i>See</i> Port		
161, 183		ix	Union.		
mining.....	257	viii	Picric acid.		
87		ix	Composition of	33	v
112		. x	Picrite.		
Minor ref. to	202	v	Crow lake, R. R. d.....	89	vi
Notes on, by Coleman.....	135	viii	Prosser tp.....	211 A	xiv
Rocks in and near.....	167	viii	Picrolite.		
Huronian	124	iv	Ross tp.....	207	ix
petrography	148	vii	Pictet, R.		
siliceous.....	183	ix	Experiments by, on acetylene		
Silver near	29	R C	gas.....	28	vi
Waterpower on.....	252	vii	Pictographs.		
Picard, A.	255	ii	Manitou lake	87	vi
lake, ALG.....	63 A	xiv	Missinaibi.....	187	vii
<i>Picea alba.</i> <i>See</i> Spruce, white			Picton, HALLOWELL TP., PRINCE ED-		
" <i>balsamea.</i> <i>See</i> Balsam.			WARD CO.		
" <i>nigra.</i> <i>See</i> Spruce, black			Brick-yard at, notes.....	95 B	xv
" <i>nigra</i> var. <i>rubra.</i>			Country near, character.....	240 A	xiii
Abitibi dist.....	242 A	xiv	Limestone from, analyses and		
Piche pt., L. TIMISKAMING.			quarries.....	99, 100 B	xiii
Rocks at and near....	86 B	xiii	Peat bog at, notes.....	32 A	xiii
quartzite and limestone, photo.	49 B	xiv	Co. formed to work.	25	ix
Pickands, Major			Pictou, PICTOU CO., N. S.		
Iron mining by, Atikokan range.	72	ii	Coal field of; iron mines of....	398	R C
Pickard pt., U. S.			Zinc-blende in.....	210	vi
Analysis of tinguaita from..	189, 190	ix	coal field, PICTOU CO., N. S.		
Pickaud's Iron Co.			As supplier for Ontario.....	196	ii
Capital and date of charter.....	9	xii	Pie island, L. SUPERIOR.		
Pickernel.			Basalt at	62	iii
Abitibi dist.....	127 A	xiii	Metallic minerals on.....	56 B	xiv
242, 253 A		xiv	Photo of	148	ix
Headquarters lake, near Larder			Trap on	37	R C
lake.....	221	xi	15		v
Lake of the Woods.....	97	vi	Piedmont, ITALY.		
Mattagami River dist.....	117, 131 A	xv	Corundum in	241	viii
Michipicoten div.....	297 A	xiv	Nickel in.....	146, 151 C	xiv
Nipigon Lake dist.....	139 A	xvi	Pierce, Dr. H. M.		
Rainy lake	44	iv	Process of, for charcoal furnaces.		
Round lake, Otto tp.....	189	xii	481, 482		R C
lake, COLEMAN TP., NIP.			S. F.....	100	ix
Keewatin greenstone on.....	42, 44 B	xiv	gold mine, MARMORA TP.,		
52 A		xvi	HASTINGS CO.....	236	iv
Minor ref. to	35 B	xiv	Pierre Plat, L. SUPERIOR. <i>See</i> Pays		
lake, MANITOU RIVER, R. R. D.			Plat.		
Dam south of.....	122	vii	<i>Pieris rapae.</i> <i>See</i> Cabbage, butterfly		
Minor ref. to.....	83	vi	Pig(s).		
Notes by Coleman.....	62	iv	Kept at Moose Factory.....	107	iv
Rocks on.....	78	iv	Pigeon(s).		
granite	50	iv	Caribou island, L. Superior	111	v
Keewatin	67	iv	Pigeon lake, HARVEY TP., PETER-		
petrography	88, 89	iv	BORO CO.		
slate.....	86	iv	Limestone on	97 B	xiii
lake, MICHIPICOTEN DIV.			Trenton	113 B	xiii
Character of country near.....	200 A	xv	lake, MONTREAL RIVER, NIP.		
Glacial deposits near.....	192 A	xv	Notes on, by Bell and Barlow. 82, 83 B		xiii
morainic hills	201, 206 A	xv	Rocks on.....	81	i
Granite hills on.....	201 A	xv	lake, OMBABIKA RIVER, TH.B.D.		
Minor ref. to.....	179 A	xv	Porphyrite on, petrography	209	x
rapid, PICKEREL LAKE, R.R.D.			pt., MINN.		
Gold prospecting near.....	63	iv	Beaches S. of.....	175	ix
Pickering, W. H.	245	xi	Silver-bearing formations near ..	33	R C
55 A		xiii	portage, MANITOWICK LAKE,		
Pickering, PICKERING TP., ONTARIO CO.			ALG.		
Hudson River formation at.....	43	R C	Moraine at.....	9 Bull.	iii
126 B		xiii	Rocks at, description.....	189, 190	vii
Iroquois beach near.....	230 A	xiii	Sand plain near.....	204, 205	vii

	Page.	Vol.		Page.	Vol.
Pigeon rapid, MANITOWICK LAKE, ALG.			Pikitigushi (PIKITIGOUCHING), NIPI- GON LAKE, TH. B. D.		
Fall of	190	vii	Marl from, analysis.....	111 B	xiii
Pigeon (OMEEMEE) rapid, MATTAGAMI RIVER, ALG.			Pilgrim, H. C.	174	ii
Gold at.....	140	ix	Pilkie, R.	117	ix
Minor refs. to	127, 128	ix		143	x
rapid, MICHIPICOTEN RIVER, ALG.			Pilkington tp., WELLINGTON CO.		
Morainic deposits at.....	192 A	xv	Gas well in.....	110 A	xv
river, MINN. AND R. R. D.			Guelph formation in.....	121 B	xiii
Animikie formation on.....	32	R C	analysis	122 B	xiii
Character of.....	198, 199	v	Oil in, boring for	24 A	xiii
Distance from mouth of, to L. St.			Pilley island, NOTRE DAME BAY, NEWFOUNDLAND.		
Joseph	192	v	Pyrites on.....	192 A	xvi
Keweenawan series on	66	R C	Piloceras.		
Iron on and near.....	144	R C	Kingston Mills	59 B	xiii
notes by Coleman.....	128-134	xi	Pilot harbour, L. SUPERIOR.		
Section from (hypothetical) across			Rocks on and near:—		
L. Superior	77	iii	conglomerate	166	viii
Trap from, to Kaministikwia			granite	349 A	xiv
river	37	R C	Keweenawan	166	viii
	15	v	Pimm, C.	117	ix
river, MONTREAL RIVER....	176	vi	Pinchin, S.		
Pihuamo, JALISCO STATE, MEXICO.			Drowned	58 A	xv
Cobalt ores in.....	71 B	xiv	Manager, Combined gold mine..	48 A	xiv
Pike.			Part owner, Baden Powell gold		
Abitibi dist.....	108, 127 A	xiii	mine	96	x
	242, 253 A	xiv	Pine & Co.		
Headquarters lake, near Larder			Phosphate mining by, Bedford tp.	245	i
lake.....	221	xi	Pine.		
James Bay tributaries	133	iv	Calorific power of.....	54 B	xv
Mattagami River dist.....	117, 131 A	xv	Distribution of.....	119	iv
Kamiskotaia lake.....	119 A	xv	Minnesota	166	v
Michipicoten div.....	297 A	xiv	On mining lands, laws regarding.	226	ix
Mississagi river	172	xii			
Nipigon Lake dist.....	139 A	xvi			
Round lake, Otto tp.....	189	xii			
Voracious habits of	139 A	xvi			
Welcome lake, Nip.	170	vi			
claim, NEAR NET LAKE, TIMA- GAMI REG., NIP.					
Notes on, by Coleman.....	172	ix			
lake, GLAMORGAN TP., HALI- BURTON CO.					
Titaniferous iron ores on	62	ii			
lake, N. BURGESS TP., LANARK CO.					
Limestone and iron on.....	49	ii			
Mica mining on.....	277, 278	v			
	132	x			
lake, MICHIPICOTEN DIV., ALG.					
Gravel plains near.....	177 A	xv			
Iron mine near	203	viii			
Rocks on	202 A	xv			
Lake mica mine, NEAR MICA- VILLE.					
Notes on, 1900.....	132	x			
1901.....	286	xi			
1902.....	128	xii			
river, BLACK RIVER, ABITIBI RIVER.					
Glacial striae on	115 A	xiii			
Minor ref. to	114 A	xiii			
Photo of portion.....	128, 129 A	xiii			
Porphyry on.....	120 A	xiii			
Rapids and driftwood on	187	xii			
Pikes peak, COLORADO, U.S.					
Ariazon stone at	225	vi			

	Page.	Vol.		Page.	Vol.
Pine.—Con.			Pine, red—Con.		
Sudbury dist.	7, 106	C xiv	Michipicoten div.	206	vii
Trill tp.	193	A xiii		296	A xiv
Vermilion river.	258	vii	Mississagi River dist.	160, 163	xii
Timiskaming lake, west of.	5	A xiv	Nipigon Lake dist.	111	iv
Wabigoon lake, near.	171, 172	vii	Rainy Lake dist.	95	iv
Windigoostigwan river.	139	v	Rainy river.	208	v
Banksian, Jack or Pitch			Wabigoon lake, near.	171, 172	vii
Abitibi dist.	108, 109, 124-126	A xiii	Savant lake.	88	xii
197, 216, 218, 224, 227-235, 242,			Timagami Lake dist.	56	R C
249, 252	A xiv		White Bear lake.	174	ix
Black river and tribs.	184-188	xii	white		
for railway-ties.	207	A xiv	Abitibi dist.	108, 126	A xiii
Agawa river.	131	viii		207, 223	A xiv
Albany river (north).	120	iv	Black river and tribs.	184	xii
Blanche river.	173, 174, 181, 183	xii	Blanche river and vicinity.	175-179	xii
Kenogami lake.	176-182	xii	Ground-hog River district.	115	iv
Fort Mattagami, photo.	219	A xiv	Hudson Bay slope.	176	vi
Gypsum mt., Alg.-Nip.	146, 158	A xiii	Lac Seul.	62	v
Hudson Bay slope.	176	vi	Lake Huron slope.	169, 170	vi
Lac Seul.	62	v	Mattagami valley.	181	x
Lake Huron slope.	170	vi		119, 120	A xv
Matawin river.	132	v	Michipicoten div.	206	vii
Mattagami valley.	181	x		296	A xiv
	105, 122	A xiii	Mississagi river.	161	xii
	118, 119, 127	A xv	Nipigon Lake dist.	111	iv
diameter.	139, 140	A xv	Rainy River dist.	65	R C
Michipicoten div.	206	vii		208	v
	137	viii	Rainy Lake dist.	95	iv
area.	13	Bull iii	Sandy lake.	172	vii
Dog river.	290	A xiv	Savant lake.	88	xii
Magpie river.	200	vii	Speight's meridian line, E. of L.		
Mississagi River dist.	158-161, 166,	xii	Superior.	130, 201, 202	viii
Montreal River basin.	173	vi	Timagami Lake dist.	57	R C
Moose River basin.	176	A xiii	White Bear lake.	174	ix
Nipigon Lake dist.	111, 112	iv	borer.		
	212	x	Abitibi dist.	128	A xiii
	138	A xvi	Burnt trees killed by.	97	iv
Port Arthur and vicinity.	114	ii	lake, KENOGAMI RIVER, ALBANY		
Rainy River dist.	181	vii	RIVER.		
Rainy Lake dist.	95	iv	Dolomite from, petrography.	210	x
Shebandowan Lake dist.	130	v	Lake iron mine, GLAMORGAN		
Speight's meridian line, E. of L.			TP., HALIBURTON CO.		
Superior.	200	vii	Notes on, by C. J. Pusey.	132	R C
Sudbury dist.	106	C xiv	Lake iron mine, VICTORIA CO.		
Sweden, for iron making.	396	R C	Titanium in ore of.	337	xii
Timagami Lake dist.	56	R C	pt., LAC DES MILLE LACS,		
Wabigoon lake (near).	171	vii	TH. B. D.		
Norway or Oregon			Rocks at.	72	vi
Abitibi dist.	126	A xiii	portage, HAWK RIVER, MICHIPICOTEN DIV., ALG.		
	207	A xv	Character of.	197	vii
Little Wabigoon river.	126	vii	portage, NIPIGON RIVER, TH.		
Matabitchuan river.	58	R C	B. D.		
Savant lake.	89	xii	Length of.	107	A xvi
Seine River dist.	137, 140, 145,		Portage bay, L. OF THE WOODS,		
	148-151	v	R. R. D.		
	91	viii	Gold mining on and near.	232, 233	ii
Thunder cape.	146	vi		25	iv
red				96, 97	vi
Abitibi Lake dist.	242	A xiv	<i>See also</i> Gold creek.		
Blanche river.	175	xii	Portage gold mine, L. OF THE		
Ground-hog River dist.	115	iv	WOODS, R. R. D.		
Hudson Bay slope.	176	vi	Character of ores.	114, 116	119
	176	A xiii	Date, 1892.	233	ii
Lac Seul.	62	v	Notes on.	26, 27	iii
Lake of the Woods, Kenora.	168	v		97	vi
Mattagami valley.	18	ix	Road from, to Hilly lake.	34	vii
	124	A xv			

	Page.	Vol.		Page.	Vol.
Pine Portage Mining Co.			Pitchpine lake, MICHIPICOTEN DIV.		
Capital and date of charter	9	x	Minor ref. to	290 A	xiv
Evidence before R.C.	64, 114-119	R C	Rocks on and near :—		
Prospecting by	26	R C	agglomerate	342 A	xiv
river, RAINY RIVER.	167	v	greenstone	302 A	xiv
Pinkerton, William	61	ix	iron-bearing	314, 322 A	xiv
<i>Pinus banksiana</i> . See Pine, Banksian			quartz-porphry	344 A	xiv
" <i>resinosa</i> . See Pine, red			Pitchstone.		
" <i>strobus</i> . See Pine, white			Michipicoten island	194	ii
Pinze, A. and J.	143	x		145	ix
	75	xi	Missinaibi (near)	187	vii
Pioneer Copper Co.			Pither, R. J.		
Work by, Bruce Mines dist.	271	xi	Indian agent, Fort Frances.	64, 118	R C
iron mine, ELY, U.S.			Notes by, <i>re</i> H. B. C. post at		
Jasper on surface of	175	xi	Kenora	171	v
Minor ref. to	152	ix	pt., RAINY LAKE, R. R. D.		
Notes on	175	xi	First, Fort St. Pierre, <i>which see</i> .		
island, L. OF THE WOODS, R.			Historical notes <i>re</i>	162	v
R. D.			Length of river from	166	v
Gold mining on, 1904	48, 49	A xiv	Trees at	161	v
	1905	54 A xv	Pithom, EGYPT.		
Mg. Co.			Bricks of	107	iii
Capital and date of charter	26	A xv	Pitkaranta, FINLAND.	329, 331, 338	xii
Formation of, proposed	48	A xiv	Pittasphalt. See Maltha.		
Pipe river, L. SUPERIOR, TH. B. D.	284	A xiv	Pitti palace, FLORENCE, ITALY.		
	316	A xiv	Built of conglomerate	134	iii
Pipes, Indian			Pitts, Rev. F. E.	44	A xv
Stone for	76	iv	Pittsburg, PA.		
Cabot head	35	B xiii	Brick pavement in	108	iii
Pipestone lake	46, 85	iv	Iron trade at and near	118-120	ii
steam				146	iii
Mica for covering, notes by Blue.			blast furnaces	xx	R C
	31, 32	v		125, 127	ii
Pipestone.			cost of production	389	R C
L. of the Woods, near Long pt.	114	vii		33, 34	x
Gold Mg. Co.			labour statistics	369	R C
Capital and date of charter	12	vii	Natural gas near	121	i
lake, MANITOU LAKE DIST, R.			Bridge Works.	119	ii
R. D.			Cobalt Co.		
Iron pyrites on	175	A xvi	Capital and date of charter	26	A xv
Pyrrhotite on	61, 74	iv	Forge and Iron Works.		
Rocks on	50, 60, 61	iv	Labour employed by, statistics.	370	R C
Routes from, to L. of the Woods			Gold Dredging Co.		
and Manitou lake	88-90	vi	Capital and date of charter	26	A xv
Talc on, for Indian pipes	46, 85	iv	Malleable Iron Co.	119	ii
pt., L. OF THE WOODS, R. R. D.			Steel Casting Co.		
Gold prospecting at	31	iii	Labour employed by, statistics.	370	R C
Pirsson, Prof. L. V.			Steel output of, 1893	120	ii
Acknowledgments to	189	ix	Steel Works.		
	208, 209	xi	Labour employed by, statistics.	370	R C
Analysis by, of heronite	189	ix	Supply Co.	118	ii
Presence of nepheline rocks sug-			tp., FRONTENAC CO.		
gested by, on Pic island	208	xi	Granite quarrying in. See Wil-		
Pischu rapid, NETTOGAMI RIVER.			letsholme.		
Diabase-dolerite from, petro-			Piuze, J.	67	xi
graphy	141	A xiii	Pixley, O. C.	105	vii
Minor ref. to	138	A xiii		101	viii
Pishkanogama lake AND river,			Plagioclase.		
ALG.			Description of	539	R C
Description of, by Parks.	134, 135	ix	<i>Planorbis bicrinatus.</i>		
Forest fires on	142	ix	In Saugéen clay	26	B xv
Pine on	141	ix	" <i>campamulatus.</i>		
Route to, from Ground-hog river,			In Saugéen clay	26	B xv
description	133	ix	" <i>parrus.</i>		
Soil and timber near	114	iv	In Saugéen clay	26	B xv
Waterpower on	142	ix	" <i>trivialis.</i>		
Pitchblende. See Uraninite.			Emerald lake	87	B xiii
Pitcher plant.					
Abitibi dist.	253	A xiv			

	Page.	Vol.		Page.	Vol.
Plant, John			<i>Platygostoma lineata.</i>		
Estimate by, of peat in Great Britain.....	189	i	Kwataboahegan river, notes.186, 187 A xiii		
Plant-?			photo....	192 A xiii	
Kaolin from Hamilton tested by.....	86	R C	" <i>ventricosa.</i>		
Plantagenet, PLANTAGENET TP.,			Cayuga (N.) tp.....	146	xii
PRESCOTT CO.			Walpole tp.....	143, 144	xii
Saugeen clay worked at.....	34 B	xv	Plaunt, Xavier	439	R C
tp., PRESCOTT CO.			Playfair, J. J. See Playfair iron mine.		
Limestone in.....	108 B	xiii	Playfair (DALHOUSIE) iron mine,		
Trenton.....	98 B	xiii	BATHURST TP., LANARK CO.		
<i>Plantago major.</i>			Evidence re, before R. C.....	138-140	R C
Abitibi Lake dist.....	242 A	xiv	Ore of, hematite.....	46	ii
Mattagami valley.....	150 A	xv	analysis and notes. 55, 56		ii
Plantain, broad-leaved			notes by Rattle.....	52, 138	R C
Night-hawk lake.....	123 A	xiii	Pyrites in.....	128 A	xvi
Plants. See Flora.			Report on, by Cowan.....	39	vi
Plaster of Paris. See Gypsum.			Section of.....	139	R C
Plastico.			Pleistocene deposits.		
Uses of.....	114	i	Iron ores of, notes by Coleman..		
Plate glass. See Glass.			142, 143		xi
Platinum.			Notes on, by Bell.....	48-52	R C
British Columbia.....	6, 8 A	xiv	Peninsula, L. Superior.....	111	vi
origin.....	154 C	xiv	Sudbury dist., notes by Coleman.	241	xii
Catalytic property of.....	63	x	101-106 C		xiv
Hardness of.....	202	vi	Timagami dist.....	165	x
Lake of the Woods (reported) ..	92	i	Wanapitei Lake dist.....	137	vii
McConkey tp.....	171	ix	geology.		
New sources of, report by Em-			Copper and iron regions of Ont.		
mens.....	179, 180	ii	175-178		ix
New South Wales.....	6 A	xiv	Lake Superior, north shore..	150, 151	viii
Norway nickel deposits.....	162 C	xiv	Michipicoten div.....	184, 185	xi
Notes on.....	206, 207	vi	192-199 A		xv
and on distribution. 142, 143		vii	Nipissing and Algoma dists.,		
Production, 1887 (Canadian)...	24	R C	notes by Coleman.....	210-212	x
1888 ".....	525	R C	Port Arthur, west of.....	146, 147	xi
1901.....	1-3, 5, 6 A	xiv	See also Glaciation.		
1905.....	1-3 A	xv	system (POST PLIOCENE).		
1906.....	3, 5, 6 A	xvi	Definition of.....	540	R C
Prospecting for, hints on.....	457	R C	<i>Pleurocera.</i>		
Round lake, E. of Moss tp.....	118	v	Don river and Toronto.....	230 A	xiii
Russia.....	190	ii	<i>Pleuronotus de cewi.</i>		
154 C		xiv	Anderdon tp.....	127	xi
Specific gravity of.....	202	vi	<i>Pleurotomaria.</i>		
Sudbury dist.....	59	R C	Anderdon tp.....	125, 127	xi
282		xii	" <i>adjutor.</i>		
5, 6 A		xiv	Kwataboahegan river, notes.186, 187 A xiii		
percentage.....	151, 153 C	xiv	photo....	192 A xiii	
production.....	155 C	xiv	" <i>delicatula.</i>		
Vermilion mine.....	105, 113, 181	R C	Kwataboahegan river, notes.186, 187 A xiii		
92		i	photo....	192 A xiii	
190		ii	" <i>itys.</i>		
United States, production, 1888 .	525	R C	Hamilton formation.....	187 A	xiii
Platinum, arsenide See Sperrylite.			Plevna, CLARENDON TP., FRONTENAC		
Platt, John			CO.		
Salt making by, at Goderich. .	190	R C	Iron pyrites near.....	203	xi
<i>Platyceras.</i>			164 A		xvi
Anderdon tp.....	125	xi	Mispickel near.....	203	xi
" <i>bisulcatum.</i>			Pliny.		
Walpole tp.....	143	xii	Views of, on asbestos.....	93	iii
" <i>ventricosum.</i>			Pliocene system.		
St. Marys.....	152	xii	Definition of.....	540	R C
Walpole tp.....	143	xii	Plover.		
<i>Platygostoma.</i>			Abitibi dist.....	253 A	xiv
Anderdon tp.....	127	xi	Plum.		
St. Marys.....	152	xii	L. of the Woods (wild).....	51	v
Woodstock.....	148	xii	104		vi
" <i>linearis.</i>			creek, PIERCE CO., WIS.		
Port Colborne (near).....	36	xi	Diamonds in.		

	Page.	Vol.		Page.	Vol.
Plumbago. See Graphite.			Point Pelee Oil and Gas Exploration Co.		
Plummer, W. H.			Capital and date of charter.....	24 A	xiii
Evidence by, before R. C. re :—			Poirier, Pascal		
Bruce and Wellington mines..	100, 101, 404	R C	Boring by, for oil, Manitoulin island.....	72 A	xv
English capital in Canadian mines	231	R C	Poison.		
mining on private lands	309	R C	Arsenic as a, notes on.....	120, 121	xi
technical education	424	R C	Pokay lake, WHITE RIVER, L. SUPERIOR.		
Owner of claim, Bruce Mines dist.....	38	viii	Beach near	176	ix
tp., ALG.			altitude	193 A	xv
Copper in	23	xi	Description of	140	viii
mining, 1899.....	95	ix	Morainic drift near.....	288 A	xiv
1900.....	118	x	Pokorney, L. G.	143	x
Farm lands in. See Rydalbank.				75	xi
Plum=pudding island, ABITIBI RIVER.				67	xii
Carbonaceous shales near.....	159 A	xiii	Pokrovsk, VLADIMIR PROV., RUSSIA.		
Plutonic rocks.			Peat in	217	ii
Mode of formation	540	R C	Pol, B.; F. AND J.	117	ix
	230	vi		143	x
Plutus Gold Mg. Co.				75	xi
Capital and date of charter . . .	12	vii	Pola, AUSTRIA.		
Plympton tp., LAMBTON CO.			Armour plate trials at	197	iv
Boring in, for water. See Forest.			Polaris claim, MOUNTAIN LAKE, N. OF JACKFISH, TH. B. D.		
Oil in	25	v	Notes on, 1900.....	86	x
	17	x	Pollock, Jackson		
Poa annua.			Notes by, on tests of Dickson peat process.....	201	i
Abitibi Lake dist.....	242 A	xiv	W. G.	275	xi
" compressa.			quarries, HAY PT., ST. JOSEPH ISLAND, L. HURON.		
Abitibi Lake dist.....	242 A	xiv	Limestone from, analysis.....	79 B	xiii
" pratensis.			Polvi, Anhusti.	34, 35 A	xvi
Abitibi Lake dist.....	242 A	xiv	Polybasite.		
" serotina.			Joachimsthal, Bohemia.....	61 B	xiv
Abitibi Lake dist.	241 A	xiv	Polycrase.		
Pogonia aphioglossoides.			Calvin tp.....	207	ix
Abitibi Lake dist.....	241 A	xiv	Polydymite.		
Point Abino, L. ERIE. See Abino pt.			Composition of	170	ii
Ann, BAY OF QUINTE.			Sudbury dist.....	194	ii
Cement works at.....	133 A	xiv		281	xii
See also Belleville Portland Cement Co.			analyses	159 C	xiv
Limestone at, analyses. 27, 28, 61, 62 B	xiii		Denison and Drury tps....	207	ix
quarries.....	289	viii	Vermilion mine.....	168	ii
	59 B	xiii	Polygala paucifolia.		
au Chenes, L. ST. CLAIR, U.S.	108	v	Mattagami valley	150 A	xv
aux Iroquois, L. SUPERIOR, U.S.	194	R C	Polygonatum biflorum.		
Pointe aux Mines, L. SUPERIOR.			Abitibi Lake dist.....	241 A	xiv
Cave at, photo	152, 153	viii	Mattagami valley	150 A	xv
Cliff near, photo.....	168, 169	viii	Polygonum amphibium.		
Copper at, bornite.....	195	ix	Abitibi Lake dist.....	241 A	xiv
chalcopyrite	212	vi	Mattagami valley	151 A	xv
mining, early.....	93	R C	" aviculare.		
	208	v	Abitibi Lake dist.	242 A	xiv
Early surveying of, for mining locations	126	vi	" cilinode.		
Geology of, notes by Coleman. 129, 130	viii		Mattagami valley	150 A	xv
Jasper ore at.....	190, 201	x	" dumetorum.		
Rocks at and near	132, 133	vi	Abitibi Lake dist.....	242 A	xiv
amygdaloidal	168	viii	Polypheumus moth.		
Keweenaw	39	R C	Abitibi dist.....	129 A	xiii
trap.	15	v	Polypodium vulgare.		
Zinc-blende at	209	ix	Abitibi Lake dist.....	242 A	xiv
Point aux Pins, L. SUPERIOR.			Mattagami valley	151 A	xv
Furnace erected at.....	209	v	Polypora perangulata.		
Shipyard at, early	197	v	Kwataboahagan river	185 A	xiii
Levis, LEVIS CO., QUE.			" shumardi.		
Anthraxolite at.....	6 Bull.	ii	Kwataboahagan river	185 A	xiii
Pelee, L. ERIE. See Pelee pt.					

	Page.	Vol.		Page.	Vol.
<i>Polypora tuberculata</i> .			Poplar. — <i>Con.</i>		
Stony pt., L. Huron.....	155	xii	Lac Seul.....	62	v
<i>Polystomella crispa</i> .			Matawin river.....	132	v
Ottawa.....	225	x	Mattagami valley.....	129, 130	ix
Polytechnic School of Delft, HOL-				105 A	xiii
LAND	500	R C		188-195, 221 A	xiv
<i>Polyzoa</i> .				118-124, 128, 144, 145 A	xv
Kwataboahagan river.....	185 A	xiii	diameter.....	127, 139-143, 152 A	xv
Pomerania, PRUSSIA.			photo.....	137 A	xv
Moss litter made in.....	212, 213	ii	Michipicoten div.....	13 Bull.	iii
Pond Lily lake, FRONTENAC CO.				206	vii
Limestone on.....	44 B	xiii		201	viii
Pond-portage rapid, MISSINAIBI			Mamainse pen.....	72	iii
RIVER, ALG.			Missinaibi valley.....	140	ix
Photo of.....	144, 145 A	xiii	Mississagi River dist.....	172	xii
Pononish, A.	143	x	Moss tp.....	79	v
	75	xi	Nipigon Lake region.....	212	x
	67	xii		138 A	xvi
	49 A	xiii	Pishkanogama valley.....	135	ix
Ponsford and Freek.			Porcupine lake.....	176	viii
Brick-yard of, St. Thomas.....	62 B	xv	Port Arthur and vicinity.....	114	ii
producing, 1902.....	29	xii	Rainy River dist.....	65	R C
Pontiac and Nipissing Exploration				181	vii
Co.			Kenora.....	170	v
Capital and date of charter.....	30 A	xvi	Rainy Lake reg.....	96	iv
co., QUE.			Rainy river.....	117	iv
Apatite in.....	436	R C		207, 208	v
Geology of portion of, N. of L.			Seine River reg.....	149-151, 155	v
Timiskaming.....	174	ix	Windigoostigwan lake.....	137	v
Marble in.....	102 B	xiii	Wabigoon lake, near.....	171	vii
Lookout, MACKINAC ISLAND, L.			Savant lake.....	88	xi
HURON	109	v	Spanish river.....	125	ix
Mining Co.			Timagami Lake dist.....	56, 58	R C
Capital and date of charter.....	9	viii	aspen See Aspen, poplar		
Pontypool, MANVERS TP., DURHAM			balsam		
co.			Abitibi dist.....	216, 219, 242 A	xiv
Stratified deposits at, altitude... 223		x	Distribution.....	121	iv
<i>Poochaetes gramineus.</i> See Sparrow,			Lac Seul.....	62	v
vesper			Mattagami valley.....	188 A	xiv
Pooh-bah lake, R. R. D.			Michipicoten div.....	295 A	xiv
Malignite on, ref. to.....	213	xi	Nipigon Lake dist.....	112	iv
Nepheline near.....	205	ix	Porcupine river.....	221 A	xiv
Rocks on.....	102	v	rough-barked See Balm of		
Poole island, L. HURON.			Gilead.		
Trap rock quarrying on.....	13, 15	v	white		
Pope, F. J.			Blanche River dist.....	180	xii
Analysis by, of titaniferous ores,			Whitefish valley, R. R. d.....	239	R C
near Seeley Bay.....	230	vii	island, MOOSE RIVER, ALG.	194	viii
	229	viii	lodge, NIPIGON LAKE, TH. B. D.		
Vanadium reported by, in titanic			Country in vicinity of, notes....	212	x
ores of Ont.....	223	vii		107 A	xvi
Work by, 1897.....	260	vii	Glacial striae on.....	135 A	xvi
on magnetic concen-			H. B. C. post at, abandoned....	106 A	xvi
tration of iron ores..	337	xii	Photo of.....	113 A	xvi
Poplar.			Rocks at and near.....	214	x
Abitibi dist.....	108, 109 A	xiii	conglomerate.....	110 A	xvi
	196-205, 217-235 A	xiv	greenstone.....	111 A	xvi
	125, 126 A	xv	iron formation.....	119, 132 A	xvi
Abitibi river and tribs. 178-183, 193		viii	photo.....	113 A	xvi
Black river.....	185, 186	xii	petrography.....	129 A	xvi
Knox tp., photos.....	216, 217 A	xiv	Route to, via Nipigon river.....	107 A	xvi
Night-hawk lake.....	176	viii	Surveyor's post near, photo....	111 A	xvi
Blanche river.....	215	xi	pt., LAC DES MILLE LACS,		
	174-183	xii	TH. B. D.		
Distribution of.....	121	iv	Indian reserve at.....	74, 114	v
Gypsum mt., Alg.-Nip. boundary. 158 A		xiii	Moose at.....	135	v
Hudson Bay slope.....	176	vi	rapid, MATTAGAMI RIVER, ALG.		
L. Huron slope.....	170	vi	Description of river near.....	123 A	xv
Lac des Mille Lacs.....	136	v	Laurentian at.....	131 A	xv

	Page.	Vol.		Page.	Vol.
Poplar Rapids river, MATTAGAMI RIVER, ALG.			Porpezite.		
Agricultural land in valley of...	121	A xv	Brazil, with palladium.....	7	A xiv
analysis of soil.....	152-154	A xv	Porphyrite.		
Description of, by Kerr.....	123, 124	A xv	Cross inlet, L. of the Woods, petrography.....	146	vii
river, L. SUPERIOR.			Dryberry river, near.....	103	vi
Gold on.....	115	R C	Pigeon lake, petrography.....	209	x
river, MISSINAIBI RIVER, ALG.			Wabigoon Lake dist.....	183	vii
Notes on, by Parks.....	194	viii	Porphyritic granite.		
Population.			Sultana island, L. of the Woods. analysis and petrography.....	116	vi
Hudson Bay slope.....	134	iv		121, 122	vi
Kenora and Keewatin.....	171	v	Porphyry.		
L. Superior, N. shore.....	147	viii	Abitibi dist., petrography..	119, 120	A xiii
Movements of, now affected....	223	R C	As a building stone.....	134	iii
Ontario, 1901.....	192	xii	Description of.....	540	R C
Sand Point City, Rainy lake....	161	v	Gros Cap, L. Superior.....	127	viii
<i>Populus balsamifera.</i> See Poplar, balsam			Keweenaw Point dist., U.S.....	36	R C
" <i>balsamifera</i> (fossil).			Calumet mine.....	38	R C
Ottawa (near).....	225	x	L. of the Woods.....	101	vi
" <i>grandidentata</i> (fossil).			Larder Lake dist.....	210	A xvi
Ottawa (near).....	225	x	Michipicoten island.....	171	viii
" <i>tremuloides.</i> See Aspen, poplar			Rainy River dist. :—		
Porcelain.			notes by Coleman.....	118	vi
Aluminium in.....	173	i	Rainy Lake dist., petrography.....	87, 88	iv
Porcupine.			pt., L. SUPERIOR.		
Wild Potato lake, notes and sketch.....	154	v	Rocks at.....	37	R C
lake, PORCUPINE RIVER, NIGHT-HAWK LAKE, ALG.			Silver prospecting at.....	197	R C
Glacial striae on.....	115	A xiii	Porpoise.		
Gold prospecting on, advisable..	141	ix	Hudson bay and strait.....	133	iv
Minor ref. to.....	129	ix	Port Albert, ASHFIELD TP., HURON CO.		
Notes on, by Kay.....	106	A xiii	Rocks near.....	66	B xiii
Parks.....	176	viii	Arthur, TH. B. D.		
Soil from and vicinity, character.			See also Port Arthur dist.		
	130, 132	A xiii	Animikie at, composition.....	101	C xiv
Trees on.....	115, 122, 123	A xiii	Blast furnace at.....	47	A xv
	221	A xiv	description....	60, 61	A xv
Volcanic tufa on.....	120	A xiii	erected.....	60	A xvi
Water in, low in Sept.....	124	A xv	proposed.....	13	A xiv
(TWIN CITIES) mine, GILLIES TP., TH. B. D.			Coal dock at, photo.....	61	A xv
Controlled by Consolidated Mg. Co.....	19	xi	Mining class at.....	6, 217	v
	96	xii		198	vi
Evidence re, before R. C. 63, 199,	203	R C		260	vii
Minor ref. to.....	5	A xv	Recorder's Office at....	36	A xvi
Witherite at.....	212	ix	school at, suggested....	426	R C
	57	B xiv	Silver shipments from, 1888....	72	R C
Work at, 1890.....	226, 227	i	Stamp mills in, untaxed.....	427	R C
1899.....	84, 85	ix	Striae at, direction.....	178	ix
1901.....	258	xi	Water-power for, from Current river.....	13	A xv
mts., MICHIGAN, U. S.			Arthur dist., TH. B. D.		
Copper of.....	83	iii	Agricultural land in.....	103	iv
Syncline of.....	76	iii		207	v
portages, NEAR FORT MATTAGAMI, ALG.			Amethysts from, exhibited at Chicago.....	187	ii
Banksian pine plains at, photo..	219	A xiv	Barite from, exhibited at Chicago.	190	ii
Rocks near.....	132	A xv	Forest fires in.....	205	v
river, NIGHT-HAWK LAKE, ALG. AND NIP.			Gold in.....	39	iv
Description of.....	106, 107	A xiii	Iron ore in.....	156	A xv
Lake shores near, description...	175	viii	hematite, quality.....	191	ii
Notes on.....	176	viii	marcasite.....	187	ii
Rocks on, dolerite.....	116, 117	A xiii	paper by Miller... 309-314		xii
Soil on.....	122, 134	A xiii	ranges, notes by Coleman.....	128-134	xi
analysis.....	247	A xiv	See also Animikie iron range.		
Pork rapid, MONTREAL RIVER.....	55	A xvi	Lead in.....	145	R C

	Page.	Vol.
Port Arthur dist.—Con.		
Natural gas in.....	153	R C
Pleistocene deposits in.....	146	xi
Railway in, need of.....	207	R C
Rocks in.....	273	A xiv
Animikie.....	39	iv
diabase.....	27	B xiv
olivine.....	127	C xiv
notes by Coleman.....	149	ix
trap.....	32	R C
Saponite in.....	208	ix
Silver ores of :—		
argentite, analysis.....	194	ix
compared to Cobalt ores..	101, 102	A xiii
evidence before R. C.....	62, 63	R C
191-202		R C
mining, 1891.....	226-229	i
1892.....	239-241	ii
1897.....	83, 84	vii
1898.....	22, 50	viii
1899.....	85	ix
1901.....	257-259	xi
1906.....	8	A xvi
notes by Blue....	176, 177	i
Ingall.....	51-58	B xiv
McKellar.....	237-239	iv
price falling has bad		
effect.....	5	A xv
Sulphur in.....	22	A xvi
Tellurium in.....	38	iv
Zinc in.....	38	iv
209		ix
notes by Merritt.....	204	R C
Arthur Duluth & Western Ry.		
Marl deposits along.....	111	B xiii
Arthur Iron Co.		
Capital and date of charter.....	9	x
Arthur Iron Mines, Ltd.		
Exhibits of, at Chicago.....	25	A xv
Arthur Mining div.		
Creation of.....	36	A xvi
Description of.....	41	A xvi
Arthur Sand, Lime, Brick Co.		
Capital and date of charter.....	30	A xvi
Clinton, OTTAWA CO., OHIO.	116	i
Colborne, HUMBERSTONE TP., WELLAND CO.		
Artesian well near, sulphurous..	59	i
Calcite from, analysis.....	14	B xiii
Cement rock at, notes and		
analysis.....	34, 35	xi
Corniferous formation in....	119	B xiii
thickness.....	156	i
Fossils from, corals.....	14	B xiii
Glass factory at, proposed.....	128	i
Limekilns near.....	37	v
119		B xiii
Limestone near, boring in.....	27	A xv
quarries.....	116	B xiii
Lower Helderberg near.....	153	xii
53		B xiii
Natural gas in.....	151	R C
44		xi
91		A xiv
boring for.....	152	R C
161, 162		i
paper by Blue..	128, 129	i

	Page.	Vol.
Port Colborne.—Con.		
Nickel extraction tests at, pro-		
posed.....	134	ii
Colborne Gas Light and Fuel Co.		
Notes on.....	129	i
Colborne Mutual Natural Gas Co. See Mutual Natural Gas Co.		
Colborne = Welland Natural Gas and Oil Co.		
Capital and date of charter.....	26	A xv
Coldwell, L. SUPERIOR.		
Rocks at and near, petrography.		
146-149		vii
syenites, paper by Cole-		
man.....	208-213	xi
Credit, TORONTO TP., PEEL CO.		
Brick works at, notes and photo.		
89, 90		B xv
Hudson River formation at.....	43	R C
Medina formation near.....	43	R C
analysis.....	8	B xv
Credit Brick Co.		
Analysis of shale used by.....	8	B xv
Plant of, notes and photos. 53, 89, 90		B xv
Dover, WOODHOUSE TP., NORFOLK CO.		
Bituminous shales at.....	119	B xiii
Erie clay at.....	13	B xv
Niagara formation near.....	125	B xiii
Dover Natural Gas and Oil Co.		
Capital and date of charter.....	9	xii
Elgin, SAUGEEN TP., BRUCE CO.		
Boring at, for salt.....	55	R C
Elmsley, N. ELMSLEY TP., LANARK CO.		
Graphite near.....	23, 106	A xv
plant.....	12	A xiii
See also MacCue.		
Franks, BOSANQUET TP., LAMBTON CO.		
Salt well at.....	55, 190	R C
depth.....	186	R C
Granby, CLARKE TP., DURHAM CO.		
Iroquois beach from, to Trenton.	239	A xiii
Henry, N. Y.		
Iron ores at, method of concen-		
trating.....	349-351	R C
326, 330		xii
Hope, HOPE TP., DURHAM CO.		
Beach near.....	230, 236	A xiii
altitude.....	233, 234	A xiii
See also Silver lake.		
Brick-yard at, notes.....	62	B xv
Natural gas at.....	45	xi
Peat prepared near.....	197	ii
Pottery works at.....	29	xii
118		B xv
Trenton limestone near.....	89	B xiii
Hope Oil and Gas Fund.		
Boring by, for gas.....	45	xi
Lambton, SOMBRA TP., LAMBTON CO.		
Corniferous formation at, thick-		
ness.....	47	R C

	Page.	Vol.
Port Leyden, LEWIS CO., N. Y.		
Charcoal furnace at.....	481	R C
Macquarie, N. S. W.		
Cobalt ore near.....	70	B xiv
Payne Coal & Iron Co.....	146	iii
Robinson, THOROLD TP., WEL-		
LAND CO.		
Clay near, character.....	117	B xiii
Niagara formation at.....	125	B xiii
Rowan, WALSINGHAM TP.,		
NORFOLK CO.		
Corniferous formation at.....	46	R C
	25	B xiii
Gas well at, record of.....	108	A xiv
Rowan Natural Gas Co.		
Capital and date of charter.....	26	A xv
Stanley, YARMOUTH TP., ELGIN		
CO.		
Bore-hole record at.....	41	B xiii
Erie clay at.....	13	B xv
Talbot, DUNWICH TP., ELGIN CO.		
Erie clay at.....	13	B xv
Portage and Chemung formation		
at.....	47	R C
Union, PICKERING TP., ONTARIO		
CO.		
Nepheline-syenite near.....	210	xi
Portage and Chemung formation.		
Description of.....	99	A xiv
Ohio.....	141	i
Oil-fields, thickness of.....	96	A xiv
bay, BAY LAKE, MONTREAL		
RIVER.		
Smaltite on.....	11	A xv
lake, S. OF L. SUPERIOR.		
Copper-bearing beds of.....	84	iii
du Fort, PONTIAC CO., QUE.		
Limestone at.....	104	B xiii
du Rat. See Kenora.		
falls, MICHIPICOTEN DIV., ALG.		
Description of river near.....	286	A xiv
Portages.		
Clearing of, suggestions by Blue.	143	v
Porter, Alfred de Bock		
Evidence by, re royalties in Gt.		
Britain.....	15	i
H. K. & Co.....	119	ii
inlet, RED-GUT BAY, RAINY		
LAKE.		
Graphite near.....	86	viii
quarry, GOEBE BAY, MANITOULIN		
ISLAND.		
Limestone from, analysis.....	75, 76	B xiii
Portland, CUMBERLAND CO., ME.		
Granite buildings of, behaviour		
in fire.....	136	iii
Portland cement.		
Definition of.....	118	R C
Industry of and occurrences. <i>See</i>		
Cement.		
Mortar from, compared with that		
from natural cement.....	163	A xii
Notes on, by Cummings..	106, 107	i
Miller.....	16, 17	B xiii
Quality of, in Ontario.....	17	iv
Specification for concrete made		
from.....	180, 181	A xiv
island, ENGLAND.		
Oolitic limestone of.....	118	A xiv

	Page.	Vol.
Portland tp., FRONTENAC CO.		
Feldspar in, mining.....	102	A xv
	86	A xvi
prospecting.....	81	A xiv
<i>See also</i> Kingston Mg.		
and Dev.Co.		
Pennsylvania		
Feldspar Co.		
Iron ore in, exhibited at Chicago.		
	79-82	ii
hematite.....	199	ix
Limestone in, fossiliferous.....	44	B xiii
Magnesite in.....	202	ix
Oil in, prospecting for.....	283	v
river, L. HURON.		
Trap rock quarrying near mouth		
of.....	13	v
tp., LABELLE CO., QUE.		
Apatite in, mining.....	436, 441	R C
mode of occurrence..	178	R C
"sugar".....	442	R C
<i>See also</i> Fleming Phos-		
phate Co.		
Portlandia (Leda) arctica.		
Ottawa.....	224	x
Portsmouth, ENGLAND.		
Armour plate tests at.....	141, 142	ii
Portugal.		
Arsenical ores in.....	102	xi
Mining laws of.....	298	R C
Pyrites deposits of.....	172, 192	A xvi
Posen, POSEN PROV., PRUSSIA.		
Moss litter made in.....	212	ii
Posepny—?		
Views of re formation of sulph-		
hides.....	18	C xiv
Post lake, VERMILION RIVER, ALG.		
Gold on, alluvial.....	258	vii
Minor ref. to.....	155, 156	x
Tertiary deposits. See Pleis-		
tocene deposits.		
Potamogeton pectinatus.		
Ottawa, near.....	225	x
" <i>perfoliatus.</i>		
Ottawa, near.....	225	x
" <i>pucillus.</i>		
Ottawa, near.....	225	x
" <i>rutilans.</i>		
Ottawa, near.....	225	x
Potanina mts., NOVGOROD DIV.,		
RUSSIA.	213	vii
Potassium.		
Proportion of, in earth's crust ..	447	R C
alum. See Kalinite.		
dichromate.		
Lime in manufacture of	13	A xiii
Potato.		
Mentioned as growing at:—		
Abitibi dist., Abitibi lake	50	A xvi
river,		
New		
Post ..	186	viii
Black river	253	A xiv
Frederick House		
lake.....	239, 240	A xiv
Night-hawk lake	177	vi
	123	A xiii
Redstone river..	107	A xiii

Page. Vol.

Potato.—Con.

Mentioned as growing at.— <i>Con.</i>		
Albany river.....	107, 111-113	iv
Fort Mattagami.....	121	A xiii
Garden River, near	197	viii
Jocko river.....	58	R C
Kamiskotaia	119, 151	A X C
Michipicoten div.....	296	A xiv
Goulais valley.....	197	viii
Michipicoten	206	vii
Mississagi river	164, 167	xii
Moose Factory.....	107	iv
Sturgeon lake, R. R. d. and Th. B. d.....	149	xi
Thunder bay, L. Superior	114	v
Kapiskasing lake.....	137	ix
L. of the Woods	105	vi
Lac Seul.....	62	v
Lost lake.....	60	v
bug. — <i>See</i> Colorado beetle.		
bug finish.		
For Colorado beetle	251	iv
Potawatamie river, OWEN SOUND.		
Niagara formation on.....	49	B xiii
<i>Potentilla anserina.</i>		
Mattagami valley	151	A XV
Ottawa, near.	225	X
“ <i>fruticosa.</i>		
Abitibi Lake dist.....	241	A xiv
Mattagami valley	150	A XV
“ <i>norvegica.</i>		
Mattagami valley	150	A XV
“ <i>palustris.</i>		
Abitibi Lake dist.....	241	A xiv
“ <i>peninsularica.</i>		
Abitibi Lake dist.....	241	A xiv
“ <i>tridentata.</i>		
Abitibi Lake dist.....	241	A xiv
Mattagami valley	151	A XV
Pot=holes. — <i>See</i> Kettle-holes.		
Portreau, William	30	vii
Potsdam, GERMANY.		
Bricks in, from sand and lime ..	vi	B xiii
Potsdam, ST. LAWRENCE CO., N. Y.		
Potsdam formation named after..	39	R C
formation.		
Bastard tp.....	80	R C
.....	34	ii
Carleton place.....	145	R C
Elmsley tps.....	80	R C
Methuen tp.....	209	viii
Notes on, by Bell.	39, 40	R C
Position of, in Cambrian.....	2	R C
Sault Ste Marie.....	204	v
Thickness of, in oil-fields.	96	A xiv
Potter, D. D. E.	68	viii
William B.		
Analysis by, of copper, Mamainse pen.....	130	ii
Potter creek, L. ERIE.		
Iron furnace on.....	319	R C
Pottery.		
Industry of, 1906, declining.....	19	A xvi
notes by Baker. 118-120 B	xv	
.....	3, 13	B xiii
Molybdenum for colouring.....	232	vii
Shales for Thedford and vicinity.		
.....	155, 156	xii
.....	70	B xiii

Page. Vol.

Pottery.—Con.

Statistics of 1891	6	i
1892.....	7, 11	ii
1893.....	7, 10	iii
1894.....	11	iv
1895.....	11	v
1896.....	13	vi
1897.....	11	vii
1898.....	13	viii
1899.....	12	x
1900.....	11, 12	x
1901.....	13, 30	xi
1902.....	12, 13, 29	xii
1903.....	3, 15, 16	A xiii
1904.....	1, 3, 16	A xiv
1905.....	1, 4	A xv
1906.....	4, 6	A xvi
Pottstown, MONTGOMERY CO., PA.		
Iron industry of.....	117	ii
Iron Co.	117	ii
Pottsville, SCHUYLKILL CO., PA.		
Analysis of anthracite from	5	Bull. ii
Smelter at, notes by Pusey.....	388	R C
conglomerate.		
Natural gas found in.....	151	R C
Potvin, Frank	43, 50	x
Poulin, Joseph	52, 57	xi
Poupore, W. J.	86	ix
Powassan, HILSWORTH TP., P.S.D.		
Brick-yard in, notes.....	88	B xv
clay for, analysis.....	27	B xv
Powawason Indian Reserve, R.R.D.	167	v
Powell, Herbert Marcus		
Gold discovered by, Madoc tp... ..	27	R C
Iron prospecting by, Marmora tp.	237	i
Notes by, on Richardson mine.. ..	53	iii
and Mitchell.		
Helen mine worked by.....	126, 137	x
.....	54, 71	xi
Work by, at Bruce Mines.....	13, 14	v
Granite Co.		
Capital and date of charter.....	9	x
Powers, Edward	32, 35	A xvi
Henry J.	31, 33	iii
Joseph A.		
Copper mining by, Mississagi river.....	25	vii
.....	37, 148	viii
Peter	194	iii
.....	263	v
Pozzuolana		
Definition of.....	14	B xiii
In mortars of Italy.....	13	B xiii
Prague.		
Dye industry in.....	46	xi
Prairie Bee lake, NEAR WINDER- MERE LAKE, ALG.		
Notes on country around.....	201	viii
hen.		
Abitibi dist.....	243	A xiv
L. of the Woods	120	vii
Pratt, J. Y.	122	vii
Joseph Hyde		
Notes by, on Emery wheels.....	38	xi
W.	105	viii
.....	67	xii
.....	49	A xiii

	Page.	Vol.		Page.	Vol.
Pre=Cambrian.			Preston, S. WATERLOO TP., WATER- LOO CO.		
Nomenclature of, report by In- ternational Committee.....	269-277	A xiv	Artesian wells at.....	61	i
Prebencore, P.	41	A xiii	Guelph formation at.....	115	B xiii
Precious stones.			Gold Mining Co.		
See also Diamonds, Sapphires, etc.			See also Olive gold mine.		
Hardness and specific gravity of.	203	vi	Capital and date of charter.....	7	vi
Notes on, by Goodwin.....	227, 228	vi		12	vii
United States, production, 1888..	525	R C	Owning Olive gold mine.....	32	vii
Preece, W. H.	115	viii	Work by, near Mine Centre.....	263	vi
Prehnite.			Prestwick, Prof. Joseph		
Apatite districts.....	442	R C	Views of, re origin of gypsum....	120	R C
Associated with copper.....	192	ii	Prewer, Rev. George	48, 54, 62	v
L. Superior.....	194	ii		182	vii
	207	ix	Price, David		
islands.....	37	R C	Copper smelting by, for Quebec		
shewn at Chicago....	184	ii	Mg. Co.....	171	ii
Slate river, analysis.....	207	ix	F. G.	105	vii
Premier Gold Mg. Co.			H E.		
Capital and date of charter.....	12	vii	Gold mining by, Manitou Lake		
Licence to.....	75	xi	reg.....	63	ix
	67	xii	I.		
	36	A xiv	Brick works of, Toronto	109, 110	B xv
<i>Prenunthes racemosa.</i>			shale for, analysis....	8	B xv
Abitibi Lake dist.....	241	A xiv	James	28	ix
Mattagami valley.....	151	A xv	Price, John		
Preneval, G.	117	ix	Brick works of, Toronto.....	29	xii
Preneveau, G.	143	x		108, 109	B xv
	75	xi	John		
	67	xii	Quarrying by, Credit Forks.....	99	i
	48	A xiii	W. G. & Co.	118	ii
Prentice, Edward Alexander			Prideaux, T. G.	81, 274	viii
Part owner, Silver Islet mine....	141	x		75	ix
Purchaser of Montreal Mg. Co's estate.....	140, 141	vi	Priest quarry, GUELPH TP., WEL- LINGTON CO.		
Prescott, W.	296	xi	Limestone of, analysis.....	122	B xiii
Prescott, AUGUSTA TP., GRENVILLE CO.			Primeau, Peter	79	A xiii
Brick-yard at.....	65	B xv	Prince, Hon. John	255	R C
analysis of clay used in.....	15, 17	B xv	Arthur landing. See Port Arthur.		
Cambro-Silurian in.....	47, 48	B xiii	August of Saxony.		
Erie clay west of.....	9	B xv	Connected with Cobalt mines of Schneeburg.		
Marine deposits near.....	220	x	bay, THUNDER BAY, L. SUPER- IOR.		
ice-dam.....	32	B xv	Copper mining at	98	R C
co.				173	ii
Axinite in.....	193	ii	Gold in ores of.....	25	R C
Limestone in, notes by Miller....	98	B xiii	copper=silver mine, SPAR ISLAND, L. SUPERIOR.		
Peat in.....	197	ii	Minerals in.....	131	vi
Emery Wheel Co.				56	B xiv
Notes by, on Raglan tp., corun- dum.....	240	viii	apophyllite.....	194	ix
Present lake. See Larder lake.			azurite.....	195	ix
President Gold Mg. Co.			cobalt.....	59, 60	B xiv
Capital and date of charter.....	9	xii	bloom.....	194	ii
lake. See Larder lake.				198	ix
Presquile river, WISCONSIN, U.S.				59	B xiv
Rocks east of.....	271	A xiv	sphalerite	209	ix
Preston, W. A.			Edward co.		
See also Preston Gold Mg. Co.			Beach in, notes by Coleman.....	240, 241	A xiii
Manager, Olive gold mine.			Fossils in.....	27	B xiii
	32, 33, 71, 128	vii	Limestone in, notes by Miller....	99	B xiii
	46, 80	viii	Trenton.....	41	R C
	72	ix		44	B xiii
	80	x	Edward Island.		
	134	xi	Absence of minerals in.....	43	i
Mispickel reported by, R.R.d....	106	xi	Peat in, notes by Harrington ...	210	ii
Owner, Nickel Lake pyrites claim.	296	xi	ref. to.....	201	ii
Statement by, re iron on Nickel lake.....	135	xi			

	Page.	Vol.		Page.	Vol.
Prince Edward Peat Fuel Co.	24	ix	Prospectors.		
Town, DARTMOOR, ENGLAND.			Coal located by, in Silurian.....	203	ii
Lit by peat fuel gas.	209	ii	Delusions of.....	219	v
tp., ALG.			Forest fires caused by	xx	R C
Gold and silver in.....	60	R C	Hints to, copper, L. Superior....	88	iii
Princess gold mine, JAFFREY TP.,			determination of miner-		
R.R.D.			als.....	203-229	vi
Notes on, 1898.....	58, 110	vii	Rainy Lake region...52, 53		iv
Gold Mg. Co.			Ignorance of.....	9 Bull.	iii
<i>See also</i> last ref.			Licences for, Michipicoten div.		
Capital and date of charter.....	12	vii	<i>See</i> Licences.		
lake, MICHIPICOTEN DIV., ALG.	293	A xiv	Protection for, required	308	R C
Quarries Co.			Services of, require consideration.	xix	R C
Sodalite mining by, Bancroft....	26	A xvi	Prosser tp., NIP.		
Princeton, BLENHEIM TP., OXFORD			Rocks in.....	192	A xiv
CO	140	iv	schists, stained by limo-		
Pringle, Henry A......41, 42,	114	vii	nite	211	A xiv
	56	viii	Soil in, analysis.....	246	A xiv
	45	ix	muskeg.....	194	A xiv
W. R.,	105	vii	requires drainage	207	A xiv
tp., P. S. D.			Timber in.....	192	A xiv
Limestone in	94	B xiii		222-235	A xiv
and graphite ..170, 171		ix	windfalls.....	195	A xiv
Printing presses.			Protogene.		
Canadian imports of, 1881-87.248,	254	R C	Definition of	540	R C
Pritchard, Capt.	139	viii	Gold Mines Co.		
Norman			Capital and date of charter.....	5	xii
Manager for Nichols' Chemical			Foley mine worked by	243	xi
Co	80	A xvi	Proton tp., GREY CO.		
W.	109	x	Terrace in, altitude	176	ix
	275	xi	Protoz a.		
Pritchard,—?			Ottawa.....	225	x
Underground Manager, West			Proudfoot, Hume B.		
End silver mine.....	62	A xvi	Acknowledgments to	117	v
Harbour Copper Mg. Co.				72	vi
Capital and date of charter.....	10	ix	Description by, of location of		
Work by, 1899.....	86	ix	Bennett tp	152	v
Prochlorite. <i>See</i> Chlorite.			Gold prospecting by, Seine river.	4 Bull.	i
Proctor, James				74	vi
Evidence by, before R. C. <i>re</i> :—				94	viii
competing with Europeans in			Surveys by, Timiskaming dist ..	39	A xvi
copper and iron	234	R C	Proudfoot's line, NIP.		
copper on Flat Point island...	114	R C	Rocks on, near Vermilion river..	170	vi
P. R.	105	x	Proudlock, Hamilton	64	viii
tp., ALG.			Proulx, Paul		
Granite in.....	69	i	Gold mining by, L. of the Woods	182	v
Producers' Oil, Gas and Mg. Co.			Prouslite.		
Capital and date of charter.....	12	vii	Annaberg and Joachimsthal.....	61	B xiv
Wells of, number	44	xi	Prout, Frank		
Oil Refining Co.			Evidence by, before Roy. Com.		
Notes on, by the manager	164	R C	<i>re</i> Wellington and Bruce mines.		
Tanking Co.				101, 378, 404	R C
Notes on, by W. Hammond	166	R C	Providence Gold Mg. Co.		
Proetus.			Capital and date of charter.....	12	vii
Kwataboahegan river, notes by			Provident Mining Co.		
Parks	191	A xiii	Capital and date of charter.	33	A xiii
photo.....	192	A xiii	Provincial Assay Office, BELLEVILLE.		
“ <i>crassimarginatus.</i>			Peat used in.....	195	xii
Cayuga N. tp	146	xii	Photo of	32, 33	ix
Progress Cobalt Silver Mg. Co.			Reports on work in, 1898	284-289	viii
Capital and date of charter.....	30	A xvi	1899.....	33, 34	ix
Proper, Clara A.	105	viii	1900.....	148-150	x
W. J.	105	viii	1901.....	76-79	xi
Proprietary Co.			1902.....	68-72	xii
Camp of, Larder lake, photo....	212	A xvi	1903.....	50, 51	A xiii
Dolomite near claims of	207	A xvi	1904.....	31-33	A xiv
			1905.....	36-38	A xv
			1906.....	47, 48	A xvi

	Page.	Vol.		Page.	Vol.
Provincial Bureau of Mines. <i>See</i> Bureau of Mines.			Pukaskwa river, L. SUPERIOR.		
Natural Gas and Fuel Co.			Beaches on.....	175	ix
Boring by. Bertie tp.....	91	A xiv	level.....	288	A xiv
Brantford tp.....	108	A xiv	Berries on.....	147, 155	viii
Colchester tp.....	115	A xiv	Brook trout in.....	297	A xiv
Willoughby tp.....	113	A xv	Fall of, in last 25 miles.....	286	A xiv
Buffalo supplied by.....	25	A xvi	Gold near mouth of.....	354	A xiv
Crowland field operated by.....	104	A xiv	Gorges on, photo.....	283, 284	A xiv
Notes on, 1890.....	132-134	i	High hills on.....	281	A xiv
Production by.....	44	xi	Jaspilite near mouth of.....	309	A xiv
Taxation paid by, 1900.....	18	x	Notes on, by J. M. Bell.....	283, 284	A xiv
1901.....	41	xi	Coleman.....	137, 138	viii
1902.....	39	xii	Quartz vein near mouth of, photo.	353	A xiv
silver mine, COLEMAN TP., NIP.			Rocks on and near.....	143	viii
Discovery and development of..	8-10	A xvi	conglomerate.....	313	A xiv
Photo of.....	9	A xvi	granite.....	166	viii
Pruden, A	105	vii	iron-bearing.....	167	xi
Prudhomme, William	32	viii	Keweenawan.....	346	A xiv
Prues nickel mine (WD 252), Bo-			schists.....	336, 349	A xiv
WELL TP., NIP.			Shores east and west of, descrip-	305, 316	A xiv
Minerals in.....	95	C xiv	tion.....	168	viii
zinc-blende.....	121	C xiv	Trees on.....	306	A xiv
Rocks in.....	201, 213	A xii	Waterpower on.....	133, 134	vii
	71	C xiv		296	A xiv
<i>Prunus pennsylvanica.</i> <i>See</i> Cherry,			Pulp mill.		
wild red or bird			Sault Ste. Marie, erection.....	91	xi
" <i>virginiana.</i> <i>See</i> Cherry, choke			notes by Cole-		
Prussia.			man.....	154	ix
<i>See also</i> Germany.			Sturgeon Falls.....	13	A xv
Arsenic production of, 1895-99..	110	xi	Webbwood.....	13	A xv
Cobalt " 1896-1900.	70	B xiv	photo.....	22	B xv
Mining schools in.....	513	R C	wood.		
Nickel imports of, 1893-98.....	215	ix	<i>See also</i> Poplar and Spruce.		
Peat-bogs of, consular report.	212-214	ii	Abitibi dist.....	208, 249	A xiv
Prussic acid.			Black river.....	187, 188	xii
From acetylene.....	33	v	Batchawana bay.....	206	vii
Prym, William	236	v		203	viii
Przibram, AUSTRIA.			Carp river.....	128	viii
Mining school at.....	513	R C	Distribution of.....	120, 121	iv
Ptarmigan.			Industry of, lime for.....	61, 62	x
Abitibi dist.....	243	A xiv	2, 3, 13	B xiii	
bay, L. OF THE WOODS, R. R. d.			sulphuric acid for..	199, 200	A xvi
Gold mining on. <i>See</i> Queen of			Lac Seul.....	62	v
Sheba mine.			Mattagami valley.....	127, 128	A xv
Minor ref. to.....	104	vi	Niven's base line, Alg., south of.	142	ix
<i>Pterinea flabella.</i>			Rainy lake.....	162	v
Stony pt., L. Huron.....	155	xii	Whitefish valley, R. R. d.....	239	R C
<i>Pteris aquilina.</i>			Pumice.		
Abitibi Lake dist.....	242	A xiv	Description of.....	540	R C
Mattagami valley.....	151	A xv	Notes on, by Miller.....	235	vi
Pubilov, RUSSIA.			Price of, 1898.....	238	viii
Molybdenum used at iron works			Pump lake, SNIDER TP., ALG.		
of.....	46	xi	Rocks on and near.....	40, 50	C xiv
Pucaswa river. <i>See</i> Pukaskwa			Pumpelly, Prof. Raphael		
river.			Iron mining by, W. of Port		
Pucherite.			Arthur.....	69, 75	ii
Schneeberg, Saxony.....	90	B xiv	Surveying by, R. R. d..	129, 130, 133	xi
Puddicombe, John	24	vi	Work by, on copper-bearing		
Pudding rapid, ABITIBI RIVER.			rocks of L. Superior, ref. to.	84, 87	iii
Notes on vicinity of.....	187	viii	Pumpkins.		
Pudding stone. <i>See</i> Jasper conglom-			Grown at Fort Matachewan.....	240	A xiv
erate.			Punk lake, MICHIPICOTEN DIV., ALG.		
Puddling (iron).			Iron-bearing rocks near.....	315	A xiv
Description and invention of....	359	R C	Minor ref. to.....	294	A xiv
Pukaskwa harbour, L. SUPERIOR.			Purchas, T. A. R.		
<i>See also</i> next ref.			Gold mining by, L. of the Woods.	58	viii
Geology of.....	133	viii			

	Page.	Vol.		Page.	Vol.
Purdon, Edward	194	i	Pyrola chlorantha		
Purdy, R.			Abitibi dist.....	241	A xiv
Oil on farm of, E. Tilbury tp....	98	A xvi	Mattagami valley.....	150	B xv
apatite mine, LOUGHBORO TP.,			<i>elliptica</i>		
FRONTENAC CO.			Mattagami valley.....	150	B xv
Notes on, by Moore.....	171	R C	<i>minor</i>		
"Puritan" s.s.			Abitibi dist.....	241	A xiv
Armour of.....	149	iii	Mattagami valley.....	150	A xv
Purnall, Otto F.	182, 187	v	<i>rotundifolia</i>		
Purple copper ore. See Bornite.			Abitibi dist.....	241	A xiv
Pursell, M.	106	x	<i>rotundifolia</i> var. <i>incarnata</i>		
	256	xi	Abitibi dist.....	241	A xiv
Pursey, William	79	ii	Mattagami valley.....	150	A xv
Pusey, C. J.			<i>secunda</i>		
Evidence by, before R. C. re:—			Abitibi dist.....	241	A xiv
iron ores, cost of production	388, 389	R C	Mattagami valley.....	150	A xv
Haliburton dist. 52, 131		R C	Pyrolusite OR Manganite (MAN-		
locations, laws re... 326		R C	GANESE OXIDE).		
market in U. S.... 234		R C	See also Manganese.		
Statement by re:—			Batchawana bay.....	202	ix
iron mining in Haliburton dist			Definition of.....	540	R C
61, 62		ii	Hardness of.....	202	vi
Snowdon tp.	334, 335	R C	Notes on, by Goodwin.....	216	vi
Hastings dist.			Specific gravity of.....	202	vi
111, 112		ii	Use of.....	540	R C
Puslinch, PUSLINCH TP., WELLING-			Pyroxene.		
TON CO.			Associated with apatite. 178, 437, 442		R C
Guelph formation in..... 50, 121		B xiii	Loughboro tp..... 53, 168		R C
analysis..... 122		B xiii	Ottawa co., Que..... 438		R C
gore, WELLINGTON CO.			Corundum mistaken for..... 61		vi
Limestone in, analysis. See Wel-			Determination of..... 205		vi
lington quarry.			Exhibited at World's Fair..... 188		ii
Guelph formation. 121		B xvi	Hardness of..... 202		vi
Put-in-Bay island, L. ERIE.			Notes on, by Goodwin..... 226		vi
Strontianite in..... 127		xi	Occurrences of..... 207		ix
Putnam co., N. Y.			Specific gravity of..... 202		vi
Pyrrhotite from, analysis..... 163		ii	Pyroxenite.		
Pye island, L. SUPERIOR. See Pie			Beaver inlet, L. of the Woods,		
island.			petrography..... 146		vii
Pym --?	81	vii	Haliburton co..... 47		xi
Pyne, Dr. R. A.			Methuen tp..... 214		viii
Boring by, for graphite, MacCue. 59		xi	North Burgess tp..... 440		R C
	26	xii	Ottawa co., Que., with apatite... 437		R C
Exhibit of, at Pan-American Ex-			Bowman tp..... 440		R C
hibition..... 87, 90		xi	Pyrrhotite.		
tp., NIP.			See also Nickel and Sudbury.		
Explorations in, by Kerr..... 125		A xv	Composition of..... 15		c xiv
Pyrralolite. See Rensselaerite.			paper by Emmens.	163-166	ii
Pyramid, The Great			Description of..... 192		ii
Mortar in, character of..... 12		B xiii	Determination of..... 203		vi
Pyrrargyrite (RUBY SILVER).			For sulphuric acid, advisability of. 200		A xvi
Cobalt dist..... xi		A xiii	Gap mine, Penn..... 146		c xiv
	12-14	B xiv	analysis..... 163, 165		ii
Joachimsthal, Bohemia..... 61		B xiv	Grant co., Oregon..... 71		B xiv
Notes on, by Goodman..... 207, 208		vi	Hardness of..... 202		vi
Saxony..... 61, 74		xiv	Magnetic permeability..... 324		xii
Waterhen creek, Alg., (trace)	131, 132	A xv	Notes on, by Miller..... 213		vi
Pyrite. See Iron pyrites.			Occurrences..... 192, 207		ix
arsenical See Mispickel.			200		A xvi
capillary See Millerite.			Piedmont, Italy..... 146		c xiv
copper See Chalcopyrite.			Specific gravity of..... 202		vi
iron See Iron pyrites.			Symbol for..... 192		ii
magnetic See Pyrrhotite.					
white iron See Marcasite.					
Pyritic island, L. SUPERIOR.					
Plumbago on..... 124		ix			

	Page.	Vol.		Page.	Vol.
Pyrrhotite. — <i>Con.</i>			Quackageshick, Louis.	187	vii
Dalhousie tp.....	138	R C	lake, MICHIPICOTEN DIV., ALG.	294	A xiv
	207	ix	Quackenbush, V.		
Elizabethtown tp.....	207	ix	Gold mining by, Manitou Lake		
	200	A xvi	dist.....	77	vii
Ferrie tp.....	170	ix		76	viii
Foley tp.....	167	ix		62	ix
Haliburton co., Galway tp.....	207	ix	Quade (NOT QUOD), A. F. F.	40	A xiv
	200	A xvi	Quaquaquitchwanook lake, E. OF		
Glamorgan tp... 200	A xvi		FREDERICK HOUSE LAKE, NIP.		
Harcourt tp..... 47	xi		Notes on, by Parks.....	179	viii
Hastings co.....	207	ix	Quarries.		
	200	A xvi	<i>See also</i> Limestone, Sandstone,		
Hungerford tp.....	157	A xvi	Gypsum, etc.		
with magnetite.....	197	xi	Industry of, 1890	95-105	i
Lake of the Woods dist :—			1897.....	98, 99	vii
associated with gold.....	37	iv	1898.....	48	viii
Kenora, near.....	192	ii	1899	109-111	ix
McConkey tp.....	262	viii	Limestone, report by Miller ..	26-126	B xiii
	171	ix	Quarry island, L. OF THE WOODS.		
Michipicoten div.....	11 Bull. ii		Gneiss on	16	iii
Boyer lake (near).....	168	xi	for masonry.....	14	iii
Missinaibi river, Split-rock rapid.	256	v	Gold mining near. <i>See</i> Ophir		
Net lake, Timagauni dist.....	173	ix	mine.		
Nickel lake (near), Watten tp... 134	xi		Minor ref. to.....	173	v
Olden tp.....	207	ix	Quarters, N.	143	x
	200	A xvi		75	xi
Parry island.....	168	ix	Quartz.		
	261	viii	Auriferous. <i>See</i> Gold.		
Pipestone lake.....	61, 74	iv	Copper Cliff, mining of, for flux..	121	xii
Port Arthur silver dist.	58	B xiv		76	C xiv
Riddell siding (near), R. R. d... 176	A xvi			26	A xvi
Rosport (near).....	109	v	value.....	4, 6	A xvi
Round lake (near), Th. B. d.... 75	x		Crystal occurrences of	208	ix
Schreiber (near).....	78, 134	vii	Cubic expansion of, under heat ..	136	iii
Sudbury dist.....	88, 89	i	Determination of.....	205, 223	vi
	14, 15, 75, 116	C xiv	Exhibit of, at Chicago.....	187	ii
	207	ix	Hardness of.....	448, 535	R C
analysis.....	163, 165	ii		201, 202	vi
	208	ix		214	vii
Blezard tp.....	433	R C	Hints on, to prospectors	450	R C
Blue lake.....	74, 158	C xiv	In building-stone.....	133	iii
description.....	158	C xiv	Notes on.....	540	R C
evidence before R. C. 103-106	R C		by Goodwin.....	223, 224	vi
Garson tp.....	36	viii	Specific gravity of.....	202	vi
Levack tp.....	274	v	Waters tp., mined for flux.....	64	A xvi
McKim tp.....	78	C xiv	Creek Gold Mining Co.		
notes by Bell.....	23	R C	Capital and date of charter.....	10	ix
Snider tp	21	xi	diorite.		
Creighton mine.. 34, 111	C xiv		Wabigoon Lake dist.....	183	vii
Vermilion river, near			island, L. OF THE WOODS, R.		
Bronson lake.....	152	x	R. D.....	119	vii
Wanapitei lake, discov-			mica diorite.		
ery.....	434	R C	Sultana island, petrography.....	122	vi
Worthington mine.....	192	ii	porphyry.		
	280	xii	Couchiching falls, Abitibi river..	211	A xiv
lake, MICHIPICOTEN DIV.			L. of the Woods.....	103	vi
Canoe route to.....	294	A xiv	Manitou lake, petrography.....	84	iv
Iron ore near, notes by J. M.			Michipicoten div., Helen mine,		
Bell.....	315, 332	A xiv	photo. 160, 161	xi	
pyrrhotite.....	332	A xiv	Mamainse		
Minor refs. to.....	286, 293	A xiv	pen.....	69, 70	iii
Schist near, analysis and notes.	305, 306	A xiv	petrography. 177	xi	
<i>Pyrus americana.</i> <i>See</i> Ash, mountain			Michipicoten island, notes by		
			Coleman.....	171	viii
			Round lake, E. of Moss tp.,		
			auriferous ...	76, 87	v
			Sandy portage, Mattagami river.	211	A xiv
			Wabigoon Lake dist.....	183	vii

	Page.	Vol.		Page.	Vol.
Quartz, smoky <i>See Cairngorm.</i>			Queen Bee Gold Mining Co.		
syenite.			Capital and date of charter.....	12	vii
French river.....	67	i	Work by, 1898.....	54	viii
Sudbury dist.....	434	R C	City Mining and Develop-		
Quartzite.			ment Co.		
Aberdeen tp., petrography.....	77	A xiii	Capital and date of charter.....	30	A xvi
Algoma-Nipissing line, ancient			gold mine, L. OF THE WOODS,		
gorge in hills of.....	182	vi	R. R. D.		
Association of, with apatite.....	438	R C	Notes on, 1896.....	49	vi
Definition of.....	540	R C	of Sheba gold mine, PTAR-		
236	vi		MIGAN BAY, L. OF THE WOODS.	174	v
Huronian areas.....	71, 72	i	of the Lakes Gold Mg. and		
notes by Bell....	20	R C	Development Co.		
Larder lake, section showing....	205	A xvi	Capital and date of charter.....	12	vii
Ottawa co., Que.....	21	R C	Queen's University, KINGSTON.		
Sudbury dist., Denison tp., for lin-			Notes on, 1890.....	215, 216	i
ing converters..	88	C xiv	Photo.	48, 49	x
petrographical			Queensboro, ELZEVR TP., HASTINGS		
notes.....	289, 290	xii	co.		
photo of, with slate.			Gold mining near. <i>See Sophia</i>		
272, 273	xii		mine.		
Timiskaming lake, photo.....	49	B xiv	Pyrites mine at.....	20	A xv
Wabigoon Lake dist.....	183	vii	25, 185	A xvi	
gold mine, GOLD CREEK, MAT-			notes and photos.....	160-162	A xvi
AWIN RIVER.			water in, excessive.....	189	A xvi
Minor ref. to.....	86	vi	Silver mining near.....	91	A xvi
Notes on, by Blue.....	129	v	Queensland, AUSTRALIA.		
Ore of, reported value.....	113	v	Mineral land in, ownership of...	44	i
Rocks of and near.....	82, 87	v	Mining laws of.....	295	R C
Quasis lake, BLANCHE RIVER REG.,			Prospecting in, with Govt. drills.		
Nip.			165, 166	iii	
Description of, by Miller...	222, 223	xi	Royalty in, on minerals, <i>nil</i>	45	i
Jasper conglomerate on.....	230	xi	Queenston, NIAGARA TP., LINCOLN		
Quaternary period.			co		
Definition of.....	540	R C	Beach at.....	227	A xiii
Quays gravel pit, N. OF PORT HOPE,			Cement works at, notes.....	108	i
DURHAM CO			<i>See also Queenston Quarry Co.</i>		
Beaches near.....	235	A xiii	Gravel and sand near, for build-		
Gravel of, used for ballast.....	238	A xiii	ing....	12	iv
Quebec province.			Historical associations.....	163	A xiv
Apatite of, paper by Penrose.	436-443	R C	Limestone of, quality....	14	A xiii
Asbestos from, mainly supplies			quarries.....	95, 96	i
the world.....	189	ii	73	B xiii	
Fuel resources of.....	196-197	ii	Quarry Co.		
Iron exports from, 1887.....	225	R C	Capital and date of charter.....	12	vii
ores, compared to those in			Exhibit of, at Buffalo.....	87, 90	xi
Ont.....	51	ii	Notes on.....	163, 164	A xiv
Mining laws of, notes by R. C.	269-271	R C	Producing, 1902.....	28	xii
Oil in.....	196	ii	Quicklime.		
and Lake Superior Mg. Asso.			Definition of.....	540	R C
60, 256	R C		Uses of.....	5, 6	B xiii
harbour, MICHIPICOTEN ISLAND,			Quicksand.		
L. HURON.....	143, 144, 154	viii	Ickta lake, Algoma.....	39	iii
Land and Mining Co.			Quicksilver. <i>See Mercury.</i>		
Early mining by.....	208	v	Quigley, G. B.	105	vii
notes by Palmer.	171-174	ii	105	viii	
Floatation and failure of..	97, 98, 103	R C	117	ix	
mine, MICHIPICOTEN ISLAND.			Peter.....	48, 50, 132	x
Notes on, by Coleman.....	143	viii	Quincke, Dr. Frederick		
Mining Co.			Experiments by, on nickel ore,		
Capital and date of charter.....	10	x	ref. to.....	107	viii
"Queen," s.s.	186	v	Nickel plating by.....	159	ii
Alexandra gold mine, NEAR			Quinlan, H. <i>See Quinlan and Robert-</i>		
MANITOU LAKE, R. R. D.			son.		
Notes on, 1905.....	51	A xv	and Robertson.		
Bee island, L. OF THE WOODS,			Limestone quarry of, at Crook-		
R. R. D.			ston.....	99	vii
Gold prospecting on.....	49	vii	48	viii	
54	viii		61	B xiii	

	Page.	Vol.		Page.	Vol.
Quinn, Barney	54	A xiii	Rabbit. — <i>Con.</i>		
John	105	xi	Michipicoten div.....	297	A xiv
quarry , ROSS TP., RENFREW CO.				200	A xv
Notes on stone from.....	106	B xiii	Nipigon Lake dist.....	139	A xvi
Quinze lake , PONTIAC CO., QUE.			Niven's base line, Alg., scarce...	142	ix
Route from, to height-of-land,			island , DOG LAKE, ALG.		
description.....	227, 228	xi	Rocks on.....	202	A xv
river , TIMISKAMING LAKE, QUE.			Huronian.....	188	vii
Geology of, notes by Miller.....	226, 227	xi	Striae on, direction.....	197	vii
Iron ore on and near.....	23	R C	lake , TIMAGAMI DIST., NIP.		
	201	x	Rocks on and near.....	172	ix
	230	xi	arkose.....	74	i
magnetite.....	54	ii	metamorphosed.....	38	B xiv
specular.....	142	R C	Striae on, direction.....	178	ix
Olivine diabase on.....	229	xi	Timber on.....	58	R C
Slates on.....	41	B xiv	pine.....	119	iv
Quirk, Cornelius			mt. , PORT ARTHUR DIST., TH.		
Gold mining by, Manitou lake..	86	vi	B. D.		
	77	vii	Silver on, discovery.....	122	iv
Killed.....	27	ix	Mountain group , PORT ARTHUR		
William			DIST., TH. B. D.		
Gold mining by, Manitou lake..	86	vi	Notes on, by Miller.....	57	B xiv
	77	vii	Mountain Junior silver mine ,		
Witness in accident.....	27	ix	RABBIT MT., TH. B. D.		
Quirt, Albert	231	iv	Controlled by Algoma Mg. Co....	96	xii
<i>Quiscalus quiscula vneus</i> . See Grackle,			Notes on, 1899.....	85	ix
bronzed			Mountain Mg. Co.		
Quod . Misprint for Quade.			Capital and date of charter.....	12	vii
Quodville , LYNDON TP., RENFREW			Mountain silver mine , LYB-		
CO.....	235	vii	STER TP., TH. B. D.		
Quotations.			Acquired by Algoma Mg. Co....	96	xii
Ballantyne's Hudson Bay.....	168	v	Dominion Gold Mg. Co. 50, 96		viii
Ecclesiastes.....	74	B xiv	American capital in.....	199	R C
Genesis.....	107	iii	Depth of, 1900.....	35	ix
Isaiah and Job.....	166, 168	i	Discovery of.....	35	R C
Linnaeus.....	89	iii	Fault in.....	238	iv
Story's Cleopatra.....	203	v	Fluorspar in.....	198	R C
Wordsworth's Peter Bell.....	2	B xiii	Mineral water in.....	54	B xiv
			Minor ref. to.....	5	A xv
			Notes on, 1899.....	85	ix
			Operations of, 1893.....	181	iii
			Silver in, form of.....	33	R C
			argentite.....	194	ix
			surface specimens, statistics...	63	R C
			Veins in, course of.....	33, 198	R C
			Veinstones of.....	57	B xiv
			Racket river , DUNDAS CO.		
			Limestone on.....	40	B xiii
			Calceiferous.....	47	B xiii
			Racine , WISCONSIN.		
			Niagara formation at.....	92	v
			Radcliffe, Brainerd	175	R C
			tp. , RENFREW CO.		
			Corundum in.....	222	vii
				223, 224	viii
			See also Canada Corundum Co.		
			Syenite in.....	230	vii
			Radium.		
			Uraninite a source of.....	12, 62	B xiv
			Radishes.		
			Mentioned as growing at:		
			Abitibi lake.....	50	A xvi
			Fort Matachewan.....	240	A xiv
			New Post, Abitibi river.....	186	viii
			Radnor iron mine , GRATTAN TP.,		
			RENFREW CO.		
			Accident at.....	47	xii
			Mining class at.....	39	A xv
			Minor ref. to.....	14	A xiv

	Page.	Vol.		Page.	Vol.
Radnor iron mine.—<i>Con.</i>			Rainham tp., HALDIMAND CO.		
Notes on, 1901	259	xi	Gas in	108 A	xv
1902	20, 114	xii	Rains, H. D.	105	vii
1903	94 A	xiii		105	viii
1904	77 A	xiv	Rainy lake, ONT. AND U.S.		
1905	39, 95 A	xv	Agricultural land N. of	207	v
1906	80, 81 A	xvi	Altitude of	44	iv
Ore of, character	20	xii	Beryl from	193	ii
shipped to Que.	7 A	xiii		237	vii
Photos of	160, 161	xii		195	ix
	112, 113 A	xiii	Depth of ; fish in	44	iv
Producing, 1906-7	16 A	xvi	Gold on, early knowledge	13	iii
Forges, FERMONT, CHAMPLAIN				123	iv
CO., QUE.			galena in	38	iv
Charcoal iron produced at	191	ii	mining	62, 63	v
notes on furnace	24-27	ii	<i>See also</i> Rainy Lake City.		
statistics and bounties	29	ii	Indian reserve on, area	167	v
Limonite at	215	vi	Iron ore on	144	R C
Rae, T. C.	105	vii	mining. <i>See</i> Seine bay.		
Ragged chute, MADAWASKA RIVER.			prospecting	141	xi
Diopside at	197	ix	Lignite on, reported	125	iv
Pargasite at	206	ix	Minerals on, evidence before R.C.	64, 65	R C
rapid, SEVERN RIVER.			Notes on, by Blue	161	v
Waterpower from, for Orillia	14 A	xv	Rocks on and near	272 A	xiv
Raglan tp., RENFREW CO.			agglomerate	130 C	xiv
Corundum in	64, 65	vi	conglomerate	184	ix
mining	20	ix	Couchiching series	82	v
	130	x	Huronian	18	R C
	294	xi		124	iv
mill for	25	x	Keewatin, Lawson's views	186	ix
notes by Blue	246	viii	limestone	100 B	xiii
Miller	220, 225	vii	petrography	77-96	iv
	222, 223	viii		154, 155	vii
photo of crystals	Facing 222	viii	Shores of, indented, reason for ..	203	v
rocks bearing. Between	232, 233	viii	Staurolite crystals on	210	ix
production, 1904	18 A	xiv	Survey of, by Coleman, ref. to ..	3	v
1905	19 A	xv	Trees on	162	v
Tests on	240	viii	pine	119	iv
<i>See also</i> Canada Corundum Co.			Water of	44	iv
Gahnite in	198	ix	Lake City, MICH.		
Garnet in	211	vii	Creation of	53	iv
Nepheline-syenite in	226, 229	vii	Gold mining near	6 Bull. i	
notes by Coleman	252	viii	stamp mill	41, 43	iv
Silurian boulders in	213	vii	Schist near, chloritic	85	iv
Spinel in	237	viii	region, R. R. D.		
Railroader's Gold Mg. Co.			Diamonds in, possibility of	124	ix
Capital and date of charter	12	vii	Fauna and flora of	95-97	iv
Work by, 1898	42, 92, 93	viii	Geological nomenclature of	272 A	xiv
Railway Land Subsidy Act.	241	R C	Gold mining in	227, 230	iv
Railways.			report by Coleman	40-98	iv
Dependent on mineral freight ...	410	R C	Huronian conglomerates of, notes		
Mileage of Canada (1891)	110	ii	by Coleman	184	ix
Need of, Abitibi dist.	116 A	xiii	Indians of	97, 98	iv
for mining industry	239-241	R C	Map of	With Vol. iv	
North Bay to L. Timiskaming,			Petrography of	77-96	iv
suggested	179	x	Report on, by Coleman	40-67	iv
Rainy River dist., possibility of			Mg. and Power Co.		
electric	133	v	Work by, 1900	100	x
Responsible for discoveries in			river, R. R. D.		
Cobalt dist.	96 A	xiii	Agricultural land in valley of ..	65, 207	R C
	9 B	xiv		44, 107, 117	iv
	3, 134 C	xiv		90, 91	v
Sudbury dist.	286	xii		147	xi
Rainfall.			notes by Blue	163-165	v
Abitibi dist.	129 A	xiii	Simpson	207	v
	240 A	xiv	reason for	202	v
Moose Factory	107	iv	Beryl crystals from, exhibited at		
Supply of, for artesian wells	51	i	Chicago	190	ii

	Page.	Vol.
Rainy river.—<i>Con.</i>		
Description by Ballantyne.....	208	v
Early French fort on.....	197	v
Indian reserve on, area.....	167	v
Iron on.....	184	ix
	135	xi
Length of.....	166	v
Lignite on, evidence of.....	52	R C
Lumbering on.....	117	iv
Navigation on.....	103	iv
suggested improvement.....	247	vi
Rocks on, Couchiching.....	153	vii
limestone.....	100 B	xiii
boulders, burnt for lime.....	76	iv
	81	v
sandstone.....	184	ix
Waterpower on.....	161	v
	252	vii
	14 A	xv
River Development Co.		
Capital and date of charter.....	10	x
Work by, 1900.....	84, 85	x
district.		
Geology of base and meridian lines of, report by Parks ..	161-182	vii
Gold mines of, report for*:		
1894. Coleman.....	40-98	iv
1895. ".....	47-71	v
Blue.....	144-190	v
1896. Coleman.....	71-108	vi
Slaght.....	248-263	vi
1897. Bow.....	35-78	vii
Coleman.....	109-132	vii
1898. DeKalb.....	41-47	viii
Bow.....	49-99, 263-274	viii
Bain.....	276-279	viii
1899. Bow.....	36-81	ix
1900. ".....	69-85	x
1901. Carter.....	235-256	xi
1902. Miller.....	91-96	xii
1903. Carter.....	59-71 A	xiii
1904. ".....	44-57 A	xiv
1905. Corkill.....	48-59 A	xv
1906. ".....	55-60 A	xvi
Iron ores of.....	20, 22	R C
paper by Miller.....	306-309	xii
Limestone in, notes by Miller....	100 B	xiii
Maps of.....	With Vol.	iv
gold region.....	Vol.	v
L. of the Woods dist.:		
Bag and Bald Indian bays..	64, 65	viii
Big-stone bay, locations....	173	v
Kenora and Keewatin.....	168	v
northern portion.....	12	iii
	With Vol	vi
Regina bay.....	180	v
Sultana island.....	15	iii
Manitou Lake dist....	With Vol.	iv
meridian and base lines....	172, 173	vii
New Klondike dist.....	80	vii
Mining lands in, statistics of sales and leases, 1891.....	7, 8	i
	1892.....	7
	1893.....	5
	1894.....	10

*Many of these reports contain a great deal of geological and topographical matter.

	Page.	Vol.
Rainy River district.—<i>Con.</i>		
Mining lands in, statistics of sales and leases.— <i>Con.</i>		
1895.....	9	v
1896.....	10	vi
1897.....	14, 15	vii
1898.....	10	viii
1899.....	11	ix
1900.....	10	x
1901.....	12	xi
1902.....	10	xii
1903.....	36 A	xiii
1904.....	23 A	xiv
1905.....	24 A	xv
1906.....	26 A	xvi
Pleistocene deposits of.....	146, 147	xi
Pyrites deposits of, notes by Fraleck.....	175 A	xvi
River Mining Co.		
Capital and date of charter.....	12	vii
Work by, L. of the Woods dist..	7	vi
	37	ix
Rajah gold mine, JAFFRAY TP., R.R.D.		
Notes on, by Blue.....	28	iii
See also Rajah Gold Mg. Co.		
Gold Mg. Co.		
Work by, Jaffray tp.....	235	ii
	28	iii
Re-construction of.....	182	v
Raleigh, R.R.D.		
Gold mining near.....	123	vii
Oil Co.		
Capital and date of charter.....	9	xii
tp., KENT CO.		
Limestone from, analysis.....	68 B	xiii
Natural gas in.....	98, 100 A	xvi
boring for.....	127	i
Oil in.....	26 A	xiii
	92 A	xvi
boring for.....	111 A	xiv
flow ceased.....	90 A	xiv
	97 A	xvi
map showing wells.....	93 A	xvi
notes.....	40-42	xii
	104 A	xvi
Ralph, James.....	149	viii
Michael		
Guide to Coleman, 1906.....	105 A	xvi
Mining by, Michipicoten div....	118	ix
	143	x
	75	xi
Rama tp., ONTARIO CO.		
Charcoal plant in. See Longford Mills.		
Glauconite in.....	198	ix
Limestone in.....	89, 90 B	xiii
analysis and notes.....	90, 91 B	xiii
Lithographic stone in.....	6 B	xiii
Ramsay, F. J.....	137	i
W. H.		
Oil prospecting by, Bothwell field.....	21	vi
Prof. William		
Ref. to paper by, on fergusonite.	236	vii

	Page.	Vol.		Page.	Vol.
Ramsay lake, McKIM AND NEELON			Ranger, Henry—Con.		
TPS., NIP.			Photo of.....	166 c	xiv
Pyrrhotite on.....	145 c	xiv	Prospector, Sudbury dist.....	135 c	xiv
Rocks on, conglomerate.....	208	x	Rankin, Col.	175	ii
	290	xii	George.....	249	iv
8, 93, 129 c	129 c	xiv	E.....	143	x
diabase dikes.....	434, 435	R C		75	xi
	297	xii	L.....	67	xii
	52 c	xiv	R. F.....	67	xii
gabbro.....	296	xii	river, AUSABLE RIVER.....	37 B	xiii
	78 c	xiv	Ransford, John		
quartzite.....	77, 92 c	xiv	Evidence by, before R. C. re:—		
lead mine, NEAR CARLETON			salt at Goderich.....	189	R C
PLACE, LANARK CO.			tariff.....	236	R C
Calcliferous formation in.....	41	R C	See also Ransford, R. and J.		
Notes on, by C. Clyms.....	146	R C	Ransford, Richard		
tp., LANARK CO.			Boring by, for salt, Goderich....	189	R C
Barytes in.....	146	R C	See also Ransford, R. and J.		
	195	ix	R. and J.		
Bog-iron ore in.....	137	R C	Salt works of.....	111	ix
Galena in.....	198	ix		38	xii
Lead mining in. See Ramsay				22 A	xiii
lead mine.				23 A	xvi
Limestone in, analysis and quar-			Ransko, BOHEMIA.		
ries.....	72 B	xiii	Peat used at, for smelting.....	207	i
Cambro-Silurian. 37, 70 B	70 B	xiii	Ransome—?		
	194	ii	Ref. to work by, on concrete....	176 A	xiv
Mispickel in.....	146	R C	Ranson, D. J.		
Rensselaerite in.....	194	ii	See also Ranson copper mine.		
	208	ix	Copper mining by, McMahon tp..	100	xii
Ramsays corners. See Ramsayville.			Licence to.....	105	viii
Ramsayville, GLOUCESTER TP., CAR-			copper mine, CHESLEY TP.,		
LETON CO.			ALG.		
Oil near, boring for.....	18	x	Notes on, 1901.....	273	xi
Rand Gold Mining Co.			1902.....	100	xii
Capital and date of charter.....	12	vii	1903.....	81 A	xiii
Owners of Northern Queen mine.	124	vii	Photo of.....	96, 97 A	xiii
Randolph, Edward.	73	vii	<i>Ranunculus abortivus.</i>		
Farm gold mine, NEAR BAD			Abitibi Lake dist.....	241 A	xiv
VERMILION LAKE, R. R. D.			Mattagami valley.....	150 A	xv
See also Isabella mine.			" <i>affinis.</i>		
Map of.....	293	viii	Abitibi Lake dist.....	241 A	xiv
Name of, changed to Isabella....	68	ix	Mattagami valley.....	151 A	xv
Notes on.....	272	viii	" <i>aquatilis</i> var. <i>trichophyllus.</i>		
gold mine, NEAR MINE CENTRE,			Mattagami valley.....	151 A	xv
R. R. D.			" <i>circinatus.</i>		
Map of.....	293	viii	Abitibi Lake dist.....	241 A	xiv
Notes on, 1898.....	272	viii	" <i>flammula</i> var. <i>intermedius.</i>		
1899.....	68	ix	Abitibi Lake dist.....	241 A	xiv
1900.....	83, 94	x	" <i>flammula</i> var. <i>reptans.</i>		
Rocks of.....	65	v	Abitibi Lake dist.....	241 A	xiv
Gold Mining Co.			Mattagami valley.....	150 A	xv
Capital and date of charter.....	10	ix	" <i>hispidus.</i>		
Work by, 1898.....	272	viii	Abitibi Lake dist.....	241 A	xiv
1899.....	68	ix	Mattagami valley.....	150 A	xv
Ranger, Henry			" <i>septentrionalis.</i>		
Creighton mine re-discovered by.	244	xii	Abitibi Lake dist.....	241 A	xiv
Evidence by, before R. C. re:—			Mattagami valley.....	150 A	xv
claim jumping.....	309	R C	Raphilite. See Tremolite.		
copper, Sudbury dist.....	106	R C	Rapid City, PENNINGTON CO., S.		
gold, Denison tp.....	113	R C	DAK.		
iron pyrites, Graham tp.....	142	R C	Mining school at.....	424, 509, 512	R C
technical education.....	425	R C	of the drowned, DOG RIVER,		
Gold prospecting by, Vermilion			L. SUPERIOR.		
river.....	153	x	Minor ref. to.....	290 A	xiv
Jaspilite found by, near L. Wana-			Phyllites on.....	344 A	xiv
pitei.....	177	x	river, MISSISSAGI RIVER, ALG.		
Last Chance gold mine discovered			Notes on, by Graton.....	160, 161	x
by.....	269	vi			

	Page.	Vol.		Page.	Vol.
Rapid river, SEVEN ISLANDS BAY, GULF OF ST. LAWRENCE, QUE.			Rathbun tp., Nip.		
Iron ore on.....	346	R C	Gold mining in.....	262, 263 57, 84-86	v vii
river, VERMILION RIVER.			<i>See also</i> Comstock mine.		
Terraces on.....	106	C xiv	Crystal mine.		
Rapsey, William	227	i	Mattagamashing lake.		
	239	ii	Iron ores in, notes by Culbert....	224	A xiii
	203	iv	Rathburn, R. H.	143	x
Raspberries.			Rathwell—?		
Abitibi dist.....	182	viii	Corundum on farm of, N. Burgess		
	128	A xiii	tp.....	214	vii
199, 242, 253	A xiv		Albite on farm of.....	193	ix
Black and Blanche rivers.....	188, 189	xii	Rattle, William		
L. Superior, north shore, late			Estimate by, of iron producing,		
growth.....	85	v	Kingston....	336, 337	R C
Michipicoten div.....	200	A xv	Evidence by, before R.C. re:—		
Montreal river, L. Superior...	200	viii	iron ore, Darling tp.....	52, 138	R C
Rasps.			smelting of.....	392, 393	R C
Canadian imports of, 1881-87....	250	R C	ref. to.....	58	ii
Rat island, L. HURON.			Rattledge, R.		
Cambro-Silurian on.....	86	i	Brick-making by, Carleton Place.	29	xii
Quartzite on.....	72	i	Rattlesnake creek, GRAND RIVER.		
Portage. <i>See</i> Kenora.			Lithographic stone on.....	146	xii
Portage bay, L. OF THE				55	B xiii
WOODS, R.R.D.			falls, RATTLESNAKE CREEK,		
Custom mill on. <i>See</i> L. of the			GRAND RIVER.		
Woods Gold and Silver Re-			Lower Helderberg formation on.	53	B xiii
duction Co.			Raven.		
Floating island in.....	109	vi	Abitibi dist.....	189	xii
Minor ref. to.....	13, 14	iii		253	A xiv
Portage Diamond Drill Co.			lake, McFADDEN TP., Nip.		
Work by, at Cornucopia mine...	67	viii	Country near, photo of.....	202	A xvi
Ontario Ltd. mine..	68	viii	lake, VICTORIA CO.		
Regina mine.....	58	viii	Cement on. <i>See</i> Raven Lake		
Portage Mg. and Dev. Co.			Portland Cement Co.		
Capital and date of charter.....	9	xii	Marl on.....	32	xii
Portage Reduction Works.				18	B xiii
<i>See</i> L. of the Woods Gold and				157	A xiv
Silver Reduction Co.			Notes on.....	18	B xiii
-root bay, RAINY LAKE, R.R.D.			Lake Portland Cement Co.		
Conglomerate belt south of.....	272	A xiv	Analyses of clay and marl used		
Rateau.			by.....	183	A xiv
Oil cited by, in Galicia.....	93	A xiv	Capital and date of charter.....	8	xii
Rathbone, Edgar P.			Directors of.....	18	B xiii
Criticism by, on gold-mining in			Notes on.....	32, 33	xii
Ontario.....	4	vii	and photos.....	157-159	A xiv
Rathbun, E. Walter			Operating, 1904.....	18	A xiii
<i>See also</i> Rathbun & Co.			1905.....	17	A xv
Evidence by, before R. C. re:—			1906.....	20	A xvi
cement.....	84, 85	R C	Plant of.....	17	A xiii
forest-fires.....	316	R C		18	B xiii
smelting iron ores.....	341, 393	R C	Rawdon, MONTCALM CO., QUE.		
Iron prospecting by.....	133, 136	R C	Anorthosite in, analysis.....	100	v
On board of Kingston School of				227	viii
Mines.....	178	iii	tp., HASTINGS CO.		
President, Canadian Portland			Mispickel in.....	105	xi
Cement Co.....	136	A xiv	Pyralolite in.....	194	ii
& Co.			Silver in.....	205	xi
Blast furnace of.....	88	R C	Trenton formation in.....	88	B xiii
notes.....	102	ix	Ray, John	251	iv
Cement of, early making.....	136	A xiv	S. W.		
plant, Deseronto,			Copper mining by, Mississagi		
burnt.....	120	B xv	river.....	148	viii
Napanee.....	109	i	Gold mining by, Seine River reg.		
quality.....	17	iv		57, 227, 228	iv
tests on.....	77	R C	Tip-top copper mine owned by..	61	A xv
Merged in Canadian Portland				61	A xvi
Cement Co.....	16	x	copper mine.	140	C xiv
Notes on, 1897.....	16	vii	=Wiegand gold mine. <i>See</i>		
1899.....	109	ix	Wiegand gold mine.		

	Page.	Vol.		Page.	Vol.
Rayburn, J. S.	57	vii	Red-paint lake, SEINE RIVER REG.,		
Raymond, Dr. R. W.			R. R. D.		
Notes by, royalties in U.S.	38-43	i	Trail from, to Sawbill lake	10	vi
mining properties in				64	vii
U.S.	11	i	=pine lake, NEAR POPLAR		
mica claim, LOUGHBORO TP.,			RAPIDS RIVER, ALG.	124	A XV
FRONTENAC CO.	133	x	=pine island, RAINY LAKE, R. R. D.		
	126	xii	Cactus on.	96	iv
mt., PAINT LAKE, MICHIPICOTEN				51	v
DIV., ALG.			=pine pt., IRON LAKE, MICHIPICOTEN DIV., ALG.		
Altitude of.	282	A xiv	Iron formation at.	313, 317	A xiv
Bog iron ore near.	324	A xiv	Siderite from, analysis.	320	A xiv
Rocks on and near.	323, 348, 351	A xiv	River Expedition (1870).		
Iron formation.	323	A xiv	Route taken by.	134	v
Rayner, E.	105	vii	=rock island, L. OF THE WOODS,		
Rayside. See Azilda.			R. R. D.		
tp., ALG.			Gold mining on. See Dead Broke		
Clay band in.	105	C xiv	mine.		
Nickel eruptive in.	62	C xiv	Rock mine, BUCKE TP., NIP.		
Sandstone ridges in.	100	C xiv	Notes on, 1905.	87	A XV
Reach tp., ONTARIO CO.			Rock Silver Mg. Co.		
Marl in.	122	A xiv	Capital and date of charter.	30	A xvi
analysis.	90	B xiii	silver.		
Reading, BERKS CO., PA.			Composition of.	453	R C
Iron industry of.	117	ii	Sucker creek, ABITIBI RIVER.		
Mining Co.			Notes on, by Parks.	184	viii
Capital and date of charter.	24	A xiii	Sucker harbour, N. OF L.		
Minto gold mine worked by.	48	A XV	SUPERIOR, TH. B. D.	28	A xiv
	56	A xvi	Sucker lake, N. OF L. SUPERIOR.		
Realgar (RED SULPHIDE OF ARSENIC).			Nepheline-syenite near.	208	xi
Carrying arsenic.	101	xi	sulphide of arsenic. See		
Description of.	221	vi	Realgar.		
Hardness and specific gravity of.	201	vi	Top clay (UPPER ERIE).		
Rebstock gold mine, NEAR FLINTON,			Analyses, notes and photos.	15-18	B XV
ADDINGTON CO.			Conestogo, analysis.	104	B XV
Mispickel in.	105, 201	xi	For bricks and tiles, description		
<i>Receptaculites.</i>			and occurrences.		
Sucker creek, near Deseronto.	27	B xiii	56, 59-66, 69-73, 76, 77, 80, 85-105	B XV	
Reck's fissure stove.			For cement.	115	B XV
Diagram of; notes on.	226, 227	xii	For pottery making.	118, 119	B XV
Red Cliff bay, L. OF THE WOODS.			Stratford, photo.	115	B XV
Granite in.	99	vi	Willow lake, E. OF PORCUPINE		
Minor ref. to.	181	v	LAKE, ALG.		
copper ore. See Cuprite.			Notes on, by Parks.	176	viii
fall, OPASATIKA LAKE, ALG.			Reddick, Dr. See next ref.		
Character of river near.	136	A xiii	gold claims, LARDER LAKE,		
hematite. See Hematite.			NIP.		
Hill claim, NET LAKE, TIMAGAMI DIST., NIP.			Gold of, quality.	208	A xvi
Notes on, by Coleman.	172	ix	Rocks of, and near.	207, 208, 211	A xvi
Jacket shaft, CALUMET AND			dolomite, photo.	215	A xvi
HECLA MINE.	144	ix	Reddington, J.	76	A XV
lake, L. OF THE WOODS REG.,			Redeemer gold mine, VAN HORNE		
R. R. D.			TP.		
Iron ore on.	22	R C	Notes on, 1901.	244, 245	xi
lake, MICHIPICOTEN DIV., ALG.			1903.	66	A xiii
Iron range near.	195	x	1904.	49	A xiv
Lake Indian reserve, MINN.			1905, idle.	55	A XV
Notes on, by Blue.	166	v	1906.	59	A xvi
lead.			Photos of.	50	A xiv
Composition of.	463	R C	Producing.	4	A XV
manganese ore. See Rhodochrosite.			Mining and Milling Co.		
Moss, HORWICH, LANCASHIRE.	196	i	Capital and date of charter.	11	x
ochre.			Redgut bay, RAINY LAKE, R. R. D.		
See also Ochre and Limonite.			Gold mining near. See Ontario		
Composition of.	463	R C	Gold Concessions.		
			Graphite on.	86	viii
			Quartz veins on, character.	59	iv

	Page.	Vol.		Page.	Vol.
Redgut bay.—Con.			Regina gold mine.—Con.		
Rocks on, Keewatin.....	49, 60	iv	Minor refs. to.....	14, 15	xii
Rocks on, petrography.....	79, 80	iv		34	A xiv
Surveyed, 1893.....	40	iv	Notes on, 1895.....	180-185	v
village, REDGUT BAY, RAINY LAKE.			1896.....	6	Bull. i
Rocks near. <i>See</i> Redgut bay.			51-53, 91, 92, 253-255		vi
Redpoll.			1897.....	28, 29, 41-43, 114	vii
Abitibi dist.....	243	A xiv	1898.....	42, 56-59, 277	viii
Redstone (NEMINISEBE) river,			1899.....	44-46	ix
NIGHT-HAWK LAKE, NIP.			1900 (idle).....	73, 91	x
Diabase on.....	180	vi	1901.....	80	xi
Dolerites on.....	116, 117	A xiii	1905.....	57, 58	A xv
Lake shores near, description...	175	viii	Photos of.....	80, 81	ix
Notes on.....	176	viii		57	A xv
	107	A xiii	Purchased by English Syn.....	227	iv
Soil on, character.....	132	A xiii	Re-opening of, expected, 1906...	43	A xvi
clay.....	180	vi	Rocks of.....	116	vi
Trees on.....	124	A xiii	granite, altered.....	87	v
Reeb, John			notes by Cole-		
Boring by, for gas, Wainfleet tp..	131	i	man.....	103	v
and Sons.			Section of.....	41	vii
Lime-kilns of, near Port Colborne.	37	v		45	ix
	119	B xiii	Surface work on, 1898.....	231	viii
Reed, C.	200	R C	veins of, character.....	118	vi
G.	105	viii	Gold Mining Co.		
	118	ix	<i>See also</i> Regina gold mine.		
	143	x	Notes on, by Blue.....	182	v
	75	xi	Officers of.....	92	vi
	66	xii	Reconstruction of, 1896.....	51	vi
	49	A xiii	Sale of, to Black Eagle Gold Mg.		
Peter	26-29	A xiv	Co.....	254	xi
S. R.	67	xii	Regnault, Henri Victor		
Susan	49	A xiii	Analysis by, of peat and anthra-		
Walter	200	R C	cite.....	166	vi
lake, OLD WOMAN RIVER, MICH-			<i>Regulus strapa.</i> <i>See</i> Kinglet, north-		
IPICOTEN DIV.			ern-crested		
Rocks on.....	205	A xv	Reid, Alfred	216	viii
Water-lilies on.....	200	A xv	G. C.	72	xii
lake, NORTH OF GRAND PORT-			H.	40, 41	A xiii
AGE, MICHIPICOTEN DIV.			James.	9	vi
Rocks on.....	306, 307, 312	A xiv	Walter J.	149	xii
narrows, L. OF THE WOODS.	91, 103	vi		115	B xiii
Reefton, SOUTH ISLAND, N. Z.			Bros.		
Mining school at.....	221, 222	iv	Brick-yard of, Hepworth.....	59	B xv
Rees and Son, James.	119	ii	tp., ALG		
Regina bay, L. OF THE WOODS,			Rocks in.....	133	A xv
R. R. D.			Soil and timber in.....	119, 120	A xv
Gold mining on.....	113	vii	Reiling, C. J.	120	ii
<i>See also</i> Regina g. m.			Reilly, J.	105	vii
Notes on.....	90, 91	vi	Reindeer Bone. <i>See</i> Atikokan.		
Photo of.....	160, 161	v	Reinens, Charles.	236, 239	v
ref. to.....	185	v	Reis, Heinrich		
Route from, to Pipestone lake,			Analysis by, of feldspar, Bedford		
notes.....	89, 90	vi	tp.....	26	x
(CANADA) Gold Mines, Ltd.			Reliance gold mine, L. OF THE		
Capital of.....	10	viii	WOODS, R. R. D.		
gold mine, REGINA BAY, L.			Notes on.....	40, 41, 74	x
OF THE WOODS.			Photo of outcrop.....	32, 33	x
Accident at.....	28	ix	Gold Mining Co.		
Assays of ore from.....	214	v	Capital and date of charter.....	9	x
Controlled by Black Eagle Gold			Gold Mining and Milling Co.		
Mg. Co.....	16, 264	xi	Operating Independence mine...	66	A xiii
Depth of, 1899.....	35	ix	Renaud, Edward Thomas.	174	ii
Exhibit from, at Buffalo.....	85	xi	Rendezvous pt., LONG BAY, L. OF		
Map of (sketch).....	180	v	THE WOODS, R. R. D.		
Mill at, photo.....	160, 161	v	Asbestos near.....	195	ix
reconstructed.....	vi	vii	Minor ref. to.....	181	v
	21, 277	viii			

- | | Page. | Vol. | | Page. | Vol. |
|--|---------------|----------|--|----------|--------|
| Renfrew, HORTON TP., RENFREW CO. | | | Reynolds, Prof. Joseph | | |
| Brick-yards at, notes..... | 96, 97 | B XV | Abitibi soils determined by..... | 130 | A xiii |
| analysis of clay used in.. | 15, 18 | B XV | Acknowledgments to | 239 | A xiv |
| Lime industry of, notes..... | 105, 106 | B xiii | Chart by, illustrating quality of | | |
| Limestone near, for Sudbury | | | Mattagami soils..... | 155 | A XV |
| smelter.. | 2, 13 | B xiii | Minor ref. to..... | 44 | A XV |
| marble | | | S. H..... | 47, 60 | ix |
| quarries.... | 74 | R C | | 76 | x |
| | 102, 103 | B xiii | William V..... | 29 | iv |
| for monu- | | | C. T. and Co..... | 122 | xi |
| ments... | 11 | B xiii | copper claim, WHISKEY LAKE, | | |
| notes by | | | ALG. | | |
| Merritt.. | 76 | R C | Notes on, 1904..... | 67 | A xiv |
| Mining class at..... | 197 | vi | Reynoldsville, JEFFERSON CO., PA. | | |
| Brick and Tile Mfg. Co. | | | Coal of..... | 201, 202 | i |
| Capital and date of charter..... | 30 | A xvi | calorific power..... | 207 | ii |
| co. | | | for Ottawa Carbide Co... | 21 | x |
| Apatite deposits in..... | 436, 439, 440 | R C | <i>Rhammus alnifolia.</i> | | |
| Brick-yards in, notes..... | 96, 97 | B XV | Mattagami valley..... | 151 | A XV |
| Corundum in..... | 207-230 | vii | <i>Rhipidomella liria.</i> | | |
| | 205, 222-224 | viii | Kwataboahagan river..... | 186 | A xiii |
| | 21, 82, 84 | A xvi | Port Colborne, near..... | 35 | xi |
| map showing..... | 82 | A xvi | St. Marys, near..... | 151 | xii |
| Limestone in, notes by Miller. | 101-107 | B xiii | | 96 | B xiii |
| Marl in, occurrences..... | 121 | A xiv | " <i>penelope.</i> | | |
| Molybdenite from, shown at | | | Stony pt., L. Huron..... | 155 | xii |
| Chicago..... | 187 | ii | Thedford..... | 154 | xii |
| Pargasite from..... | 194 | ii | " <i>vanuxemi.</i> | | |
| Topography of, character..... | 437 | R C | Stony pt., L. Huron..... | 155 | xii |
| <i>Rensselaeria orata.</i> | | | Thedford..... | 154 | xii |
| Abitibi river..... | 187 | viii | Rhode island, U. S. | | |
| Rensselaerite OR Pyralloolite. | | | Anthracite in..... | 159, 163 | vi |
| Charleston lake, analysis..... | 208 | ix | notes by Tarr..... | 165 | vi |
| Ramsay tp..... | 194 | ii | Rhodes, Harry | 38 | A xiv |
| | 208 | ix | William..... | 147 | R C |
| Rawdon tp..... | 194 | ii | | 21 | ii |
| Republic dist., MICHIGAN. | | | <i>Rhammaria rumosa.</i> | | |
| Iron ores of..... | 20 | R C | Stony pt., L. Huron..... | 155 | xii |
| Iron Works..... | 130 | ii | Rhodium. See Sperryllite. | | |
| Reserve island, SEINE RIVER, R.R.D. | | | Rhodin, J. G. A. | | |
| Gold mining on, 1896..... | 4 Bull. | ii | Electrolytic apparatus of, descrip- | | |
| | 74, 75 | vi | tion and diagram..... | 65-68 | x |
| | 1897..... | 132, 133 | Rhodochrosite (MANGANESE SPAR). | | |
| | 1898..... | 94 | Hardness of..... | 202 | vi |
| Reservoir park, TORONTO. | | | Lake Superior islands..... | 208 | ix |
| Fossils from..... | 230 | A xiii | McKellar island..... | 187 | ii |
| Resseman, P. W. | 86 | ix | Silver islet..... | 54 | B xiv |
| Rest island, RAINY LAKE, R.R.D. | | | Notes on, by Goodwin..... | 216 | vi |
| Quartz-diorite on..... | 78 | iv | Port Arthur silver dist. | 58 | B xiv |
| Reusch, H. | | | Prospecting for, hints on..... | 462 | R C |
| Views of, re origin of Norwegian | | | Specific gravity of..... | 202 | vi |
| apatite..... | 443 | R C | Rhubarb. | | |
| Revell, George | 71 | A xiv | Grown at Fort Matachewan.... | 240 | A xiv |
| William..... | 216 | viii | <i>Rhynchonella cuneata.</i> | | |
| Reverberatory furnace. | | | Abitibi river..... | 187 | viii |
| Comparison of, with blast furnace. | 375 | R C | Thorold..... | 117 | B xiii |
| Revillon Freres | 106 | A xvi | " <i>psittacca.</i> | | |
| Reward claims. | | | James bay..... | 143 | A xiii |
| West Australia..... | 295 | R C | Rhyolite. | | |
| Reynolds, Charles C. | | | Composition of | 234 | vi |
| Mining by, Michipicoten div.... | 105 | vii | Riazan prov., RUSSIA. | | |
| | 105 | viii | Peat in..... | 217, 218 | ii |
| See also Reynolds | | | Rib lake, TIMAGAMI DIST., NIP. | | |
| copper claim. | | | Minor ref. to..... | 35 | B xiv |
| Dr. | | | Pyrites mining on..... | 21, 200 | A xvi |
| Views of, re peat as furnace fuel. | 209 | i | photos..... | 166 | A xvi |
| | | | See also Harris mine. | | |
| | | | <i>Ribes cynosbati.</i> | | |
| | | | Abitibi Lake dist..... | 241 | A xiv |

	Page.	Vol.
<i>Ribes floridum</i> .		
Abitibi Lake dist.	241	A xiv
" <i>prostratum</i> .		
Abitibi Lake dist.	241	A xiv
" <i>rubrum</i> .		
Abitibi Lake dist.	241	A xiv
Rice.		
Matawin valley.	129	v
Moss tp.	120	v
Rainy River dist.	96, 97	iv
Grassy lake.	60	v
Little Wabigoon lake	67	iv
Rice lake.	148	v
A. N.	46, 82	viii
	76	ix
bay, NICKEL LAKE.		
Pyrites near.	175	A xvi
bay, RAINY LAKE, R. R. D.		
Gold mining near.	55	iv
Rocks on.	81	iv
creek, STURGEON LAKE, R. R.		
AND TH. B. D'S.	147	xi
(KANAGUSHKA OR ITCH) lake,		
MATTAGANI RIVER, ALG.		
Description of.	131	ix
Forest fires near.	141	ix
lake, SEINE RIVER, R. R. D.		
Rice on, wild.	148	v
lake, S. OF WABIGOON LAKE,		
R. R. D.		
Gold mining on, 1900.	97	x
1901.	133	xi
See also Elizabeth mine.		
lake, NORTHUMBERLAND AND		
DURHAM COS.		
Beach near.	232	A xiii
Morainic hills near.	233	A xiii
"Rice rock."		
Definition of.	8	C xiv
Sudbury, near.	89	C xiv
Rich, William		
Notes by, on royalties in Corn-		
wall, Eng.	32, 33	i
cape, OWEN SOUND.		
Beaches at, notes by Coleman.	176	ix
Richard landing, ST. JOSEPH ISLAND,		
L. HURON.	199	xi
Richards, R.	27, 28	A xv
Richards, Prof. Joseph W.		
Views of, on aluminium.	173, 174	i
	247	viii
Prof. R. H.		
Assay by, of quartz, Marmora tp.	107	R C
Notes by, on American and other		
mining-schools.	509-513	R C
Notes by, on laboratories in U.S.	417	R C
S.		
Notes by, on Murray mine.	187	iii
	52	C xiv
Hon. Stephen	303	R C
Windsor		
Notes by, on iron industry, 1892.		
	121, 122	ii
Richardson, E.	435	R C
George		
Evidence by, before R. C. <i>re</i> apa-		
tite.	53	R C

Richardson, George — Con.

	Page.	Vol.
Feldspar mining by, Bedford tp.	26	x
	295	xi
See also Kingston Feldspar and		
Mg. Co.		
Richardson corundum		
mine.		
J. (MICHIPICOTEN)	105	vii
J. (TILBURY E. TP.)	98	A xvi
James		
Peat bogs sounded by, Carleton		
co.	198	ii
John See Richardson gold		
mine.		
Sir John		
On meaning of Kaministikwia ..	198	v
Matthew		
Boring by, for oil, Port Colborne.	129	i
Robert	31	viii
W.	105	vii
James and Sons.		
Brick-yard of, Kerwood.	79	B xv
Exhibits of, at Buffalo.	88, 90	xi
Feldspar mining by See Rich-		
ardson feldspar mine.		
Mica mining by, Loughboro tp.	12, 92	A xiii
	20, 85	A xiv
	103	A xv
	23	A xvi
Mining classes at mines of.	39	A xv
Zinc mining by.	25	xii
	11, 54	A xiii
See also Richardson zinc mine.		
corundum mine, BEDFORD TP.,		
FRONTENAC CO.		
Notes on.	39, 295	xi
	38, 136, 137	xii
	21, 90	A xiii
	19	A xiv
and photos of workings.		
	99, 100	A xv
feldspar mine, BEDFORD TP.,		
FRONTENAC CO.		
Accident at.	33-35	A xv
Mining class at.	39-41	A xv
Notes on, 1903.	90	A xiii
1904.	81	A xiv
1906.	85	A xvi
Photo of.	224, 225	A xiii
	81, 82	A xiv
	85	A xvi
Producing, 1905.	19	A xiii
gold mine, MADOC TP., HAST-		
INGS CO.		
Discovery of.	27, 28	R C
	35	iv
	199	xi
Evidence <i>re</i> , before R. C.	110, 111	R C
History of.	53-55	iii
Idle, 1894.	236	iv
Notes on, by Merritt.	106	R C
Vennor.	39	iv
Ore of, character.	38	iv
harbour, HOMER TP., L. Su-		
PERIOR.		
Rocks near.	305, 349	A xiv
Hill gold mine, ADJOINING		
RICHARDSON GOLD MINE.	111	R C

	Page.	Vol.		Page.	Vol.
Richardson zinc mine, OLDEN TP., FRONTENAC CO.			Ries, Heinrich		
Cobbing ore at, photo.....	112,	113 A xiii	Notes by, on plasticity of clays..	34 B	xv
Mining class at	54 A	xiii	Ref. to work by, on Lime Industries of New York.....	2 B	xiii
Mill at, photo	93 A	xv	Rigaud (GRAISSE) river, PRESCOTT CO.		
Notes on, 1902.....	139	xii	Limestone on, Calciferous.....	47 B	xiii
1903.....	94 A	xiii	quarried.	98, 99 B	xiii
1904.....	39,	79 A xiv	"Rigging" for oil.		
1906.....	79 A	xvi	Dawn tp.....	18, 19	vii
Operating, 1903.....	11 A	xiii	Riggs, M. G.	78 A	xiii
Output, 1904.....	15 A	xiv	Right of Way Mg. Co.		
1906.....	18 A	xvi	Capital and date of charter.....	30 A	xvi
Photo of	80 A	xiv	Dividend, 1907.....	13 A	xvi
Richelieu river, ST. LAWRENCE RIVER, QUE.			Producing, 1906.....	8 A	xvi
Clays on, stratified	32 B	xv	Riley, James		
Richmond, GOULBURN TP., CARLETON CO.			Experiments by, on nickel-steel.		
Peat bog near	190	i		383, 384	R C
tp., LENNOX CO.				135, 139-141	ii
Black River formation in.....	27 B	xiii		193, 194	iv
Rickard, Alexander	242	viii		170 C	xiv
C. M.	109	iii	Manager, Steel Works of Scotland	173, 176 C	xiv
T. A.			Notes by, on uses of nickel-steel.	386	R C
Paper by, on mineral eposits of Chalauches, France.....	63-67 B	xiv	Photo of	277 C	xiv
Views of, on diamond drilling... ..	164	iii	Ref. to paper by, on Alloys of Nickel and Iron.....	165 C	xiv
tp., NIP.			Statement by, re value of nickel-steel.....	185	iv
Abitibi river in, character	186 A	xiv	Steel ships first built by	368	R C
Sand in, for building material... ..			Ringerike, NORWAY.		
Soil from, analysis... ..	246,	247 A xiv	Nickel ore of, analysis.....	283	xii
peat.....	201 A	xiv	of matte..	154 C	xiv
Trees in.....	232 A	xiv	mining	178, 179	iv
Ricketts, P. de P. See next ref.			Rintoul, John Alfred	53-57	xi
and Banks.			Rio Myra Co.		
Analysis by, of iron ore, Darling tp.....	141	R C	Working pyrites, Madoc tp.....	295	xi
Notes by, on MacDonell mine, Sudbury.....	179	ii	Tinto copper mine, SPAIN.		
Report by, on Belmont gold mine	49, 50	iii	Notes on.....	371, 372	R C
Riddell—?	49 A	xvi	by Tupper.....	178 C	xiv
J. D.	82	ii	Pyrites deposits of	196 A	xvi
Riddle, David	31	viii	Rocks of	192 A	xvi
Rideau canal.			Riopelle, Joseph		
Fossil tracks on.....	40	R C	Notes by, on nickel in Denison tp.....	105	R C
Graphite on. See MacCue.			Riot Act.		
Iron ores on, notes	34, 35	ii	Read at Silver islet.....	150	vi
Graphite Co.			Rioux, Paul	173, 174	iii
Capital and date of charter.....	9	xii		236, 239	v
lake, RIDEAU CANAL.			Ripley, J. L.	100	xii
Apatite mining near	251	ii	J. O.	67	xii
See also Otter apatite mines.			L. V.	49 A	xiii
Steatite on island in	210	ix	M. T.	164	xii
Ridgetown, HOWARD TP., KENT CO.				49 A	xiii
Brick-yard at, notes.....	72 B	xv	Rising, A. F.	95 A	xiii
Ridgeway, BERTIE TP., WELLAND CO.				78 A	xiv
See also Bertie tp.				94 A	xv
Natural gas supply of.....	135	i	A. W.	158 A	xvi
	44	xi	Sun copper mine, MORIN TP., ALG.		
Ridler Brick Co.			Notes on, 1903.....	79, 80 A	xiii
Brick-yard of, Penetanguishene, notes	99,	100 B xv	Ritchie, C. E.	107 A	xv
Ridley, George N.	20	ii	Samuel J.		
Ridout, H.	252	xi	Letter to, re Sudbury mining costs	180 C	xiv
	94	xii	Magnetic concentration of iron ores tried by, Hastings co.....	332	xii
	59 A	xv	Notes by, on the Iron Industry of Ont.....	106-111	ii

	Page.	Vol.
Ritchie, Samuel J.--Con.		
Paper by, on nickel-steel...	168-182	c xiv
Photo of.....	167	c xiv
W. S.	180, 196	viii
Riter and Conley.....	118	ii
Rittingerite.		
Joachimsthal, Bohemia.....	61	B xiv
River Range, ZONE TP., KENT CO.		
Boring at, for oil.....	21	vi
Riviere a la Graise. See Rigaud		
river.		
aux Sables. See Ausable		
river.		
du Loup, TEMISCOUATA CO.,		
QUE.		
Marine deposits at	216	x
Ouelle, KAMAROUSKA CO., QUE.		
Peat at.....	198	ii
Riverside portage, MISSINAIBI		
RIVER, ALG.	194	viii
	145, 178	A xiii
Rivets.		
Canadian imports of, 1881-87....	246, 249, 250	R C
Factories for, statistics.....	116	ii
Rixdorfer Maschinenfabrik.		
Peat process of. See Schlickey-		
en, C.		
RL 403 silver loc. See O'Brien mine.		
404, 406 silver locs. See Nip-		
issing Mining Co.		
RM 5 gold loc. See Golden Fissure		
mine.		
Roads.		
Baril portage to Moss tp. (Govt.)	121	v
Bruce Mines to Ophir mine....	38	iii
Dawson route, R. R. d. and Th.		
B. d., notes by Blue.....	115	v
England, superiority of.....	103	iii
For mining industry, need of, 239-241		R C
Govt. contributions to.....	9, 10	vi
	34	vii
Materials for:—		
cement, as foundation	16	iv
diabase, Bruce Mines.....	125, 169	viii
notes by Coleman.....	126	viii
Iroquois beach.....	238	A xiii
quality	104, 105	iii
trap, notes by Blue.....	13-16	v
See also Brick, vitrified		
Michipicoten div.....	5 Bull.	iii
	288, 289	A xiv
	175	A xv
Mine Centre to Vermilion lake		
(Govt)	155	v
Northern nickel range.....	192, 193	A xiii
Roaf, J. R.....	143	x
Roam lake, W. OF ROBERTS TP., ALG.		
Notes on, by Culbert.....	223	A xiii
Roasting ores.		
Sudbury dist., method.....	379, 404	R C
Rob Roy Mines, Ltd.		
Capital and date of charter.....	11	xi
Robb, Charles		
Altitude of Burlington beach		
given by	225	A xiii
G. C.		
Views of, on mica boiler-covering.	32	v

	Page.	Vol.
Robb, John		
Notes by, on graphite works,		
MacCue	35	vi
Robbins, David.....	92	vii
George L.	46, 81	viii
K. S.	105	A xiv
Robbins, TENN.		
Paving clay from, analysis.....	120	iii
Robert bay, MUSKOKA DIST.....	80	B xiii
cape, MANITOULIN ISLAND, ALG.		
Rocks at	78	B xiii
Section of strata at.....	77	B xiii
Roberts, Prof. Chandler.....	493	R C
H.	214	v
I. S.	240	ii
John H.	135	x
	288	xi
	103	A xv
M. S.		
Peat-drying invention of.....	197	i
T.....	232	xi
Frank C. & Co.....	17	A xvi
Iron Co.		
Capital and date of charter.....	12	vii
iron mine, PALMERSTON TP.,		
FRONTENAC CO.		
Notes on	81	ii
tp., NIP.		
Iron prospecting in.....	219	A xiii
ore in, notes by Culbert ...	223	A xiii
Roberts-Austen, Sir William		
Chandler		
Notes by, on extraction of nickel.	132-134	ii
Notes by, on Thomas-Gilchrist		
steel process.....	91, 92	ii
Paper by, on nickel extraction by		
Mond process	106-120	viii
Visit of, to Canada.....	144, 145	vii
	7	viii
Robertson, A. M.....	65, 156, 157	v
	112	vii
A. W.	273	viii
	70	ix
D.		
Burgess gas well tested by.....	99	A xvi
David	97	x
Duncan See next ref.		
D. & Co.		
Brown stone quarrying by, Credit		
Forks	110	ix
Lime kilns of.....	28	xii
analysis and capacity.....	58	B xiii
photo.....	16, 17	B xiii
Robertsville (OR Lizzie) iron mine,		
PALMERSTON TP., FRONTENAC CO.		
Notes on, 1898.....	31	viii
1899.....	104	ix
1900.....	128	x
Ore from, at World's Fair.	81	ii
Scapolite rock in	229	viii
Robillard, Annie.....	243	viii
Henry		
Corundum on land of, Raglan tp.	243	viii
	20	ix
	130	x
photo	232, 233	viii
See also Craig mine		

	Page.	Vol.
Robillard, H. & Sons.		
Limestone quarry of	28	xii
analysis and position.....	37, 38	B xiii
Robin.		
Abitibi dist	126	A xiii
swamp		
Timagami Lake dist.....	58	R C
Robinet, J.		
Brick-yard of, Sandwich.....	64	B XV
Robinson, A. H. A.		
Analysis by, of:—		
heronite	189	ix
iron ore, Helen mine	193	x
limestone, Port Colborne	34	xi
syenite, N. shore, L. Superior.	211	xi
A. W.	99	vii
B. J.	209	x
David.....	102	i
E.....	87, 88	vii
Edmund A.	174	v
George	46, 48	xii
George W.	200	R C
H. M.	105	viii
James	238	v
O. B.	84	viii
	66	ix
	82, 94	x
William		
Accident to.....	31	vii
William		
Gas on farm of, E. Tilbury tp..	97-100	A xvi
Hon. William	178	ii
William Cherry		
Notes by, on turf industry in the		
Netherlands	216	ii
lake, SEINE RIVER DIST., R.R. D	128	vii
lake, YORK BRANCH RIVER.		
Syenite on.....	221	viii
Rea Machine Co.	119	ii
Robison, J. B. J.	39	vi
Roche, E. K.		
Work by, 1900.....	6	x
1901.....	60	xi
1903.....	42	A xiii
1906.....	31	A xvi
W. W.		
Notes by on boring for:—		
anthraxolite, Balfour tp.	160	vi
iron, Matawin range.....	131	v
Work by, 1895.....	190, 226	v
1903.....	42	A xiii
Fendue channel, OTTAWA		
RIVER, QUE.		
Limestone in.....	102, 104	B xiii
Roches moutonnees.		
Michipicoten harbour, photo....	177	A xv
Night-hawk lake.....	115	A xiii
Rochester, CLINTON CO., N.Y.		
Brick pavements in	108	iii
Iron ore near.....	43	R C
Morainic ridges round	123	ix
Rochester-Colbalt Mines, Ltd.		
Capital and date of charter.....	30	A xvi
Rochester Mining Co.		
Capital and date of charter	29	A xvi
tp., ESSEX CO.		
Boring in, for oil. See Woodslee.		
Rochon. See Lillin and Rochon.		

	Page.	Vol.
Rock Glen, AUSABLE RIVER, LAMB-		
TON CO.		
Hamilton formation on.....	154, 155	xii
	69	B xiii
Shale on, for pottery	156	xii
analysis	70	B xiii
Island bay, RAINY LAKE. See		
Rocky Islet bay.		
Island portage, MISSINAIBI		
RIVER, ALG.	195	viii
lake, ABERDEEN AND PLUMMER		
TPS., ALG.		
Copper on, chalcopryite.....	196	ix
mining	19	viii
	22, 271, 272	xi
See also Rock Lake copper		
mine.		
Railway from, to Bruce Mines..	37	x
Rock near.....	259	viii
lake, FRONTENAC AND LANARK		
cos.		
Corundum-bearing rocks near...	227	viii
Limestone on.. ..	46	ii
Lake apatite mine. See Opini-		
con apatite mine.		
Lake copper mine, ABERDEEN		
AND PLUMMER TPS., ALG.		
Mining class at.....	61	xii
Minor ref. to.....	7	A xiii
Notes on, 1889.....	95, 96	ix
1900.....	119, 120	x
1901.....	270, 271	xi
1902.....	99	xii
by Coleman	124	viii
Photos of.....	95, 96	ix
	144, 145	x
	256, 257, 272, 273	xi
plant.....	128, 129	x
	96, 97	xii
Work at, 1898....	19	viii
1899.....	95	ix
1900.....	37, 118,	x
1901.....	270	xi
1902.....	18	xii
1903, suspended	81	A xiii
See also next ref.		
Lake Mining Co.		
Capital and date of charter	10	ix
Exhibit of, at Buffalo	86	xi
Work by. See Rock Lake cop-		
per mine.		
salt. See Salt.		
Rockford, TOWNSEND TP., NORFOLK		
CO.		
Clay near.....	33	B xiii
Limestone at, fossils in.....	88	B xiii
corals.....	143	xii
Rockland, CLARENCE TP., RUSSELL		
CO.		
Lime from, for Ottawa Carbide		
Co.....	21	x
Rockland, KNOX CO., MO.		
Limestone at, cost of, placed in		
kilns	10	B xiii
Quarry cable hoist at.....	353	R C
Rockland, QUE. See New Rockland.		
Rocks.		
Division of.....	133	iii
Notes on minerals forming ...	223-226	vi

	Page.	Vol.		Page.	Vol.
Rocks and Rock structures.			Rollin.		
Paper on, by Miller.....	229-236	vi	Brick-yard of, Madoc.....	18 B	xv
Rockwood, ERAMOSA TP., WELLING-			hill, NAPANEE.		
TON CO.			Analysis of limestone from.....	28 B	xiii
Lime-kilns at	14 A	xiii	Rolling mills.		
photo	122 B	xiii	Ontario, notes by Hardy	353	R C
Limestone at, notes	120, 122 B	xiii	Rollins mine, WOLLASTON TP., HAS-		
Rocky Islet bay, WALTON TP., R. R. D.			TINGS CO.		
Gneiss on	79	iv	Mispickel in	104. 198	xi
Porphyrite near	84	iv	Roman cement.		
Talc at, for indian pipes	85	iv	Manufacture of, in England.....	118 A	xiv
lake, NEAR WINDIGOKAN LAKE,			Romania. See Roumania.		
TH. B. D. See Watson lake.			Romans, The		
pt., MANITOULIN ISLAND, ALG.			Spanish copper mines worked by. 372		R C
Niagara formation at	78 B	xiii	Rome, ONEIDA TP., N. Y.		
Saugeen river, SAUGEEN RIVER.			Beaches near	233, 236 A	xiii
Guelph formation on	50 B	xiii	Change of level north of	235 A	xiii
Waterpower on	33	xi	Romeu, A de	55 B	xiv
Roddick tp., R. R. D.	164, 167	v	Rominger, Dr. Charles		
Rode, J.	82	vi	Note by, <i>re</i> Helderberg forma-		
Rodgers, S. B.			tion in Michigan	123	xi
Puddling furnace of	359	R C	Romney tp., KENT CO.		
Roebbling concrete system.			Oil and gas in	25, 26 A	xiii
Description of	177 A	xiv	map showing wells	25 A	xvi
Roehling—?	79, 80 B	xiv	report by Knight	92-106 A	xvi
Roessler & Hasslacher Chemical			ref. to	23, 24 A	xvi
Co.	122	xi	<i>See also</i> Wheatley.		
Rogers, Elias	201	i	Rondeau, HARWICH TP., KENT CO.		
F. C.			Natural gas near	127	i
Notes by, on salt in Ontario	188	R C	Peat bog at, analysis	203	xii
G. H.	105	vii	idle, 1903	29 A	xiii
105	viii		notes	32 A	xiii
118	ix		and plan of works	206-208	xii
143	x		photo	192, 193	xii
75	xi		Portage and Chemung formation		
67	xii		near	47	R C
49 A	xiii		harbour, L. ERIE.		
J. M.			Peat and gas on. <i>See</i> Rondeau.		
Mica mining by, N. Burgess tp. .	130	xii	Roofing materials.		
J. W.	118	ix	<i>See also</i> Actinolite, Slate, etc.		
Prof.			Evidence <i>re</i> , before Roy. Com. 79-88		R C
Phosphatic secretions found by,			slate. See Slate for roofing.		
on sea-bottoms.	441	R C	“Roolz.”		
R.	57	ix	Manufacture of	160	ii
79	x		Root river, S. S. MARIE DIST., ALG.		
Samuel See Fairbanks,			Copper mining on	72 A	xvi
Rogers Co., and Rogers,			Rocks near	273, 274 A	xiv
S. and Co.			Ropes, Leverett S.	20	ix
W. C.			130	x	
Work by, 1897	208	vii	<i>Rosa blanda.</i>		
1898	204	viii	Abitibi dist.	241 A	xiv
S. and Co.	162	R C	Mattagami valley	150 A	xv
27	v		Moose River basin	177 A	xiii
Rohn, E. H.	105	viii	“ <i>sagl.</i> ”		
Roland, Walpole			Mattagami valley	150 A	xv
Evidence by, before R. C. <i>re</i> :—			Roscoe, Prof. Henry Enfield.	491	R C
L. Superior region	62	R C	Rose, Gustav		
silver, Strange tp	202	R C	Miaskite named by	213	vii
surveys in mineral belts	313	R C	Rose (WILD).		
Minor ref. to	160	v	Abitibi dist.	253 A	xiv
Notes by, on silver lodes, Port			Sturgeon river	139 A	xvi
Arthur dist.	225, 226	i	pt., GEORGIAN BAY, L. HURON.		
lake, BOWELL TP., ALG.			Rocks at	166	ix
Rocks on	200 A	xiii	petrography	181	ix
70 C	xiv		Striae at, direction	178	ix
Rolla, PHELPS CO., MISS.			Roseberry tp., R. R. D.	167	v
Mining school at	509, 511	R C	Rosebrugh, R. M.		
			Analysis by, porphyritic granite. 122		vi

	Page.	Vol.		Page.	Vol.
Rosebrugh, T. R.	215	i	Ross tp.—Con.		
Rosebush, Louis.	14	ii	Molybdenum sulphide	232	vii
Rosedale, FENELON TP., VICTORIA				194	ii
CO.				205	ix
Brick works near	105	i	Pierolite in	207	ix
See also Don river.			Spinel in	210	ix
Pressed Brick and Terra			Tourmaline in	190	ii
Cotta Co.				211	ix
Paving-brick making contemp-			Tremolite in	211	ix
lated by	127	iii	Rossi, Auguste J.		
Roselite.			Experiments by, on titanite ores. 89-91		ii
Saxony	90	B xiv	Notes by, on titanite ores	231	vii
Rosendale, ULSTER CO., N.Y.			Rossie, N.Y.		
Limestone of, analysis	34	xi	Hearthstone of, for furnaces	324	R C
15, 16		B xiii	Rossland, R.R.D.		
comparison with some in east-			Fahlbands near	118	vi
ern Ont.	153	xii	Gold mining near	234	ii
Rosenheim, BAVARIA.			30, 31		iii
Peat drying process at	193	i	69, 227		iv
Ross, George J.	51, 52	ix	See also El Diver m.		
Hon. George W.	88	xi	Rajah m.		
J.	84	xii	Molybdenite near	14	iii
Hon. J. S.	147	R C	Road to, built by Govt.	34	vii
O C. D.			Rossman, J. P.	74	ix
Notes by, on origin of petroleum. 144		i	Rossport, L. SUPERIOR, TH.B.D.		
S. P. (H.P.C.)			Animikie formation E. of.	32	R C
Acknowledgments to	3	Bull. iii	Iron pyrites near	181	A xvi
185		vii	Nickel mining near. See Moc-		
Licence to	104	vii	casin m.		
Notes by, on the nomenclature of			Zinc mining near. See Zenith m.		
Wawa lake	193	vii	Rotary kilns.		
Walter			For cement, notes on	130	A xiv
Part owner, Comstock gold mine. 269		vi	Roth, Agusta	105	viii
Norway "	31	iii	F.	105	vii
49		vi		105	viii
President, Empress Gold Mg. Co. 263		vi		118	ix
& Co. (QUEBEC).				143	x
Owners, Victoria silver mine. .. 258		xi		75	xi
& Holgate.	71	A xiv	Argue & Co.	97	A xvi
Ross, ROSS TP., RENFREW CO.			See also Barnard-Roth-Argue.		
Marble quarries in	102, 103	B xiii	Rothschild, B.	49	A xiii
Cobalt Silver Mines Co.			H. J. M.	67	xii
Capital and date of charter	30	A xvi		75	xi
lake, VERMILION RIVER, (HAN-				48	A xiii
MER TP.)			M. D.	49	A xiii
Gold mining on and near	257	vii	& Co.		
notes by Coleman	153, 154	x	Associated with Société le Nickel. 182		iv
Gravel beds on, altitude	158	x	New Caledonia nickel mines con-		
lake, VERMILION RIVER, (TRILL			trolled by	175	C xiv
TP.)			Cobalt Co.		
Rocks on	196	A xiii	Capital and date of charter	26	A xv
nickel-bearing	210	A xiii	Work by, 1905	83	A xv
23, 64		C xiv	Rothwell, Charles Garnett.	95, 250	vi
limestone quarry, E. HAWKES-				250	vii
BURY TP., PRESCOTT CO.	99	B xiii	Henry	43, 50	viii
nickel mine, FOY TP., ALG.			Evidence by, before R. C. re :—		
Rocks on and near	200, 201	A xiii	prospector's rights	312	R C
offset deposits	70	C xiv	silver, Port Arthur dist.	200	R C
tp., RENFREW CO.			want of railways	240	R C
Apatite in	194	ix	R. P.		
Biotite in	195	ix	Arsenic works erected by, Deloro. 112		xi
Hornblende crystals in	199	ix	Notes by, on Richardson gold		
Limestone from, analysis	106	B xiii	mine	107	R C
Trenton. See Cobden.			Rottbarth, Herr.	213	ii
Marl in	107	B xiii	Rotten-stone.		
122		A xiv	Definition of	541	R C
Molybdenum oxide in	194	ii	Rouge river, ONTARIO CO.		
205		ix	Iroquois beach on	230	A xiii
			Limestone near	126	B xiii

	Page.	Vol.		Page.	Vol.
Rouleau, J.	105	vii	Roy, Ernest	51, 57	xi
Roumania.			Napoleon See Roy Gold Mg. Co.		
Nickel coinage in.....	161	ii	Thomas		
Round bay, MISSINAIBI RIVER, ALG.			Iroquois beach in Canada, first described by.....	225 A	xiii
Marine deposits on.....	137	vi	Gold Mg. Co.		
Lake, BELMONT TP., PETERBORO CO.			Depth of shaft sunk by, 1899....	35	ix
Rocks near.....	193	xi	Work by, on Seine river, 1897. 67,		
lake, BLANCHE RIVER, NIP.			132, 133	vii	
Explorations from, to Abitibi river, report by Bolton....	173-190	xii	1898. 42, 94	viii	
Fish in.....	189	xii	1899... 79	ix	
Iron ore on.....	9 A	xiii	Royal Brick Co., (OHIO).		
Minor refs. to.....	248, 261, 262	A xiv	Analysis of shale used by.....	119	iii
Rocks on and near.....	263, 268	A xiv	Colonial Institute	4	vii
lake, E. OF MOSS TP., SHEBANDOWAN LAKE DIST., TH. B. D.			Commission, The (ON THE MINERAL RESOURCES OF ONTARIO).		
Camp on, photo of.....	128, 129	xi	Report by, on Mineral Resources of Ontario,.....	Vol. R C	
Copper on, chalcopryrite mining. See Tip-top Copper Mg. Co.	196	ix	gold mine.		
Gold mining on, notes by Blue..	118	v	Notes on, 1898.....	110	vii
Coleman. 75, 76		v	School of Mines (ENGLAND).		
Map of.....	121	v	Notes on, by R. C.....	493	R C
Portages from, to Shebandowan lake.....	125	v	Society of Canada.		
Quartz-porphry on, auriferous.	87	v	Founding of.....	220	i
Route to, from Shebandowan lake, description.....	117-119	v	"Royal Sovereign" H.M.S.		
Storm on.....	119	v	Armour of.....	150	iii
Surveyed by Coleman, 1895.....	3	v	Sovereign gold mine, ANZ-HEKUMMING LAKE, R. R. D.		
lake, MICHIPICOTEN DIV., ALG.			Notes on.....	122	vii
Rocks on.....	202 A	xv	247	xi	
lake, SEINE RIVER, R.R.D.			92	xii	
Eruptive masses on.....	119	vi	Photo of.....	272, 273	xi
Notes on.....	73	vi	Royalties.		
lake, TIMAGAMI LAKE DIST., NIP.			Australasia.....	44, 45	i
Farm land near.....	57	R C	New South Wales. 20-25, 30, 31		i
Rocks and shore line on.....	177	x	Belgium.....	298	R C
slates.....	73	i	Canada, notes by Blue..	8-10, 47, 48	i
lake, WENEBEGON RIVER, ALG.	167	xii	Ceylon, British Columbia, Natal, Labuan and Perak.....	43	i
Roussain, John	68	iii	Great Britain, extracts from the British Commission's report..	15-47	i
Roussainville, L. SUPERIOR, ALG.			Ontario, gold and silver, abandoned.....	128	vi
Copper prospecting at.....	73	iii	re-introduced..	267	R C
Photo of.....	68	iii	oil, abandoned.....	24 A	xvi
Rousseau, Charles	171	ii	Portugal.....	298	R C
66	iii		Spain.....	299	R C
Rovenzon.			21, 25, 26, 28, 30	i	
Experiments by, on iron ores....	357	R C	United States.....	11-15	i
Rowan, James H.			Royce, J. C.	23	xii
Notes by, on Woodland div., C. P. R.....	110	iv	Rubble.		
John	16	x	Production statistics. See Building-stone statistics.		
T.	16	x	Ruble, John	44, 45	x
Rowan, MARMORA TP., HASTINGS CO.			Joseph	44, 45, 50	x
Asbestos mining near.....	246	i	<i>Rubus chamismorus.</i>		
lake, E. OF L. OF THE WOODS, R. R. D.	185	v	Abitibi Lake dist.....	242 A	xiv
mica claim, STORRINGTON TP., FRONTENAC CO.	133	x	Mattagami valley.....	150 A	xv
Rowe, E. P.	45	xi	<i>" triflorus.</i>		
F. F.	53	xi	Abitibi Lake dist.....	241 A	xiv
Roxborough tp., STORMONT CO.			Mattagami valley.....	150 A	xv
Marine deposits in.....	219	x	Ruby.		
peat bog.....	190	i	A variety of corundum.....	216	vii
198	ii		Burma.....	62	vi
See also Warina.			241	viii	
Trenton formation in. See Lodi.			Composition of.....	448	R C
			Hardness of.....	202	vi

	Page.	Vol.		Page.	Vol.
Ruby.—<i>Con.</i>			Russell, Joseph		
Mythical properties of.....	230	viii	Brick works of, Toronto, notes		
Notes on, by Goodwin.....	228	vi	and photo.....	108 B	xv
Specific gravity of.....	202	vi	V.		
gold mine, WABIGOON LAKE,			Brick-yard of, Burks Falls.....	88 B	xv
R. R. D.			William W.		
Notes on, by Parks.....	179	vii	Evidence by, before R. C. <i>re</i> :—		
island, MINNITAKI LAKE,			iron, Port Arthur dist.....	144	R C
R. R. D.			mining laws.....	312	R C
Gold prospecting on.....	71	viii	silver, Port Arthur dist..	62, 203	R C
lake.			ref. to.....	26	R C
Iron ore on.....	144	R C	Iron ore shown by, at Chicago..	81	ii
silver. See Pyrargyrite.	65	ii	Notes by, on Atikokan iron range.	72-74	ii
Silver Mfg. and Development				142	v
Co.			Brick and Tile Co.		
Capital and date of charter.....	30 A	xvi	Capital and date of charter.....	30 A	xvi
Rudd, A. B.			co.		
Iron mining by, S. Sherbrooke			Palæozoic rocks in.....	22 B	xiii
tp.....	274, 275	v	Cambro-Silurian.....	107, 108 B	xiii
Mica mining by, S. Burgess tp...	278	v	tp., RUSSELL CO.		
W. H.	56	viii	Limestone in, analysis.....	108, 109 B	xiii
	51	ix	Trenton.....	48 B	xiii
Rudler, F. W.	493	R C	Miller Mining Co.		
Ruethel Mining Co.			Purchase by, of Hillyer mine...	230	iv
Exhibits of, at Buffalo.....	25 A	xv	nickel mine, BLEZARD TP.,		
Rumex brittanica.			NIP.		
Abitibi Lake dist.....	241 A	xiv	Rocks of.....	433	R C
" <i>verticillata.</i>			Russia.		
Mattagami valley.....	151 A	xv	Anorthosite from, analysis.....	226	viii
Rumsey, Mo.			Corundum in, notes.....	213	vii
Wire-rope tramway at.....	353	R C		234-236	viii
Rundle, Lewis Philip	161	xii	Iron and steel production of, 1886.	224	R C
Rupert House, JAMES BAY, QUE.			Miaskite in.....	213	vii
Mission at.....	192	viii	Nickel steel for battle-ships of...	196	iv
Rupert's land, QUE.			Peat in, industry, notes by		
Historical notes <i>re</i>	196	v	Michell.....	217, 218	ii
Rush, George	34, 35 A	xvi	used on railways.....	202	i
Robert			Platinum mining in.....	190	ii
Gold mining by, Michipicoten				143	vii
div.....	113	ix	Schungite from, analysis....	165, 166	vi
	73	xi	<i>Russosignum.</i>		
Licence to.....	105	viii	Hamilton (near).....	141	xii
	118	ix	Rust, Ezra		
	143	x	Gold mining by, Seine River reg.	81	ix
	75	xi	President, Jack Lake Gold Mg.		
W.	113	x	Co.....	106	x
bay, L. OF THE WOODS, R.R.D.				148, 256	xi
Gold mining on.....	61 A	xiii	Ruthenburgh.		
<i>See also</i> Golden Horn mine.			Views of, <i>re</i> magnetic concentra-		
Bay gold mine. See Golden			tion of iron ores.....	331	xii
Horn mine.			Rutherford tp., ALG.		
Bay Golden Horn Mg. Co.			Iron ore in. <i>See</i> Killarney.		
Capital and date of charter.....	11	xi	Ornamental stone in.....	93	i
<i>See also</i> Golden Horn mine.			Rocks in.....	68, 80, 83, 84	i
Rusk co., TEXAS.			notes by Bell.....	30, 31 B	xiii
Iron ore in.....	101	ii	<i>See also</i> Lamorandiere		
Russell, A. L.			bay.		
Acknowledgments to.....	130	xi	Ruthven, S. GOSFIELD TP., ESSEX CO.		
Iron ore exhibited by, at Chicago.	82	ii	Natural gas consumption of.....	42	xi
Licence to.....	118	ix	supply.....	118	i
Map by, of Manitou dist., ref. to.	42	iv	Rutile.		
C. P.	72 A	xiii	Occurrences of... ..	208	ix
E. F.	100	x	Specific gravity of.....	233	viii
G. H.	105	vii	United States, production, 1888..	525	R C
I. C.			Rutland, RUTLAND CO., VT.		
Ref. to surveys by, in Dakota....	157	vii	Marble of.....	80, 81	R C
			quality.....	63 B	xiii

	Page.	Vol.		Page.	Vol.
Rutledge, J. J.			S 140 gold loc.	<i>See</i> Jenny Leigh mine.	
Description by, of Davis pyrites mine, Mass.....	191	A xvi	141 gold loc.	<i>See</i> Boulder gold mine.	
Rutley, Frank			170, 172 gold locs.	<i>See</i> Cameron mine.	
Asbestos defined by.....	93	iii	182 gold loc.	<i>See</i> Sirdar mine.	
Ruttan, J. F.	182	iii	459=465, 492 gold locs.	<i>See</i> Northern Light Mines Co.	
Ruttmann, F. S.			500 gold loc.,	EAGLE LAKE, R. D.....	66 A xiii
Ref. to work by, on magnetic concentration of iron ores.....	338	xii	Sabascosing bay, L. OF THE WOODS.		117 vii
Ryan, Hugh	136	R C	Sabawe (WALSH) gold mine,	BAWE LAKE.	
James M.	55, 57	xi	Notes on, 1900.....		x
Brick-yard of, Smiths Falls.....	76	B xv	1901.....	150	xi
P. A.	10	B xiv	1903.....	72 A	xv
T. J.			Operations suspended.....	242	xi
Mining Land Agent, Sudbury... 145		x	lake, ATIKOKAN RIVER, R.R.D.		
Report by, 1900..... 147, 148		x	Description of, by Blue.... 141, 142		v
1901..... 82		xi	Gold mining on. <i>See</i> Sabawe gold mine.		
1902..... 49		xii	Iron ore near..... 72, 73		ii
1904..... 34	A	xiv	details of borings. 131-133		xi
Trustee, Mineral collection, Sudbury..... 200		vi	mining.... 107, 111, 112		x
Work by, 1900..... 6		x	Pleistocene deposits on..... 73		v
Hon. Thomas & Co., T. M.			Rock barrier at head of..... 142		v
Brick-yard of, Niagara Falls, notes..... 105	B	xv	Lake Gold Mg Co. 72 A		xiii
Quarrying by, Detroit river..... 101		i	Sabiston, P. W. 110		ix
and Haney.			Sable Iron Works.		
Limestone quarrying by, Mel-drum Bay.			Labour employed at, statistics... 370		R C
analysis..... 75, 76	B	xiii	river, L. HURON.	<i>See</i> Ausable river.	
notes..... 79, 80	B	xiii	Safes.		
photo..... 96, 97	B	xiii	Canadian imports of, 1881-1887.. 252		R C
tp., ALG.			Safflor (COBALT OXIDE).		
Fissure veins in..... 75		iii	For glass staining..... 75	B	xiv
Ryant, L. SUPERIOR, TH. B. D. ... 85		v	Safflorite.		
Rydalbank, PLUMMER TP., ALG.			Cobalt dist..... 99	A	xiii
Farm lands at..... 152		viii	Sagandeba lake, NIVEN'S BASE LINE,		
Glacial striae at, direction..... 157		viii	ALG..... 138, 139		ix
Rocks north of..... 159		viii	Sage, H. 49	A	xiii
Rymal, WENTWORTH CO.			M. 143		x
Gas piped to..... 106	A	xiv	75		xi
Limestone from, as flux.... 125, 126	B	xiii	Michael 298		xi
S 28 gold loc., MUD LAKE, R. R. D.			lake, MICHIGOTEN DIV., ALG.		
Notes on, by Coleman..... 86		vi	Canoe routes to..... 285, 292	A	xiv
48 gold loc.	<i>See</i> Victory gold mine.		Greenstone in..... 302	A	xiv
56 gold loc., CAMP BAY, L. OF THE WOODS.			Sagetowashka lake.	<i>See</i> Sakh-atawichtah lake.	
Auriferous dike in..... 101		vi	Sagina lake, FORTY-MILE RIVER,		
57, 71=73, 77, 78, 90=93 gold locs., CAMP BAY, L. OF THE WOODS 101, 102		vi	JAMES BAY..... 192		viii
77 gold loc.	<i>See</i> Trojan gold mine.		Sagitchiwaigamag lake, BOWELL TP., ALG.		
79 gold loc.	<i>See</i> Mascotte gold mine.		Greenstone in..... 75		i
86, 87 gold locs.	<i>See</i> Campbell, Neil		S gittaria variabilis.		
94 gold loc.	<i>See</i> Yum-Yum Gold Mg. Co.		Abitibi Lake dist..... 241	A	xiv
100 gold loc., NEAR EAGLE LAKE, R. R. D.			Mattagami valley..... 150	A	xv
Notes on..... 66	A	xiii	Sagorinus phaebe.	<i>See</i> Phoebe.	
105=107 gold locs.	<i>See</i> Gold Bullion Mg. Co.		Sahawachewan rapid, GROUND-HOG RIVER, ALG. 133		ix
			Sahkatawichtah lake, N. OF RICE LAKE, ALG. 131, 132		ix
			Sahlin, Axel		
			Ref. to paper by, on tale..... 102		iii
			work by, on treatment of magnetic ores..... 338		xii
			St: Amand, John 46, 48		xii
			St. Ammond, Augustus 235-240		v

	Page.	Vol.
St. Anne, E. HAWKESBURY TP., PRESCOTT CO.		
Fault west of	99 B	xiii
Ste. Anne des Plaines, TERREBONNE CO., QUE.		
Peat at	198	ii
St. Anthony Cobalt Mg. Co.		
Capital and date of charter.....	29 A	xvi
Gold Mg. Co.		
<i>See also</i> St. Anthony Reef mine.		
Capital and date of charter.....	24 A	xiv
Reef gold mine, STURGEON LAKE, TH. B. AND R. R. DIST.		
Mil erected at.....	5 A	xiii
	47 A	xv
Minor ref. to.....	3 A	xiv
	4 A	xv
Notes on, 1902.....	82-84	xii
1903.....	70, 71 A	xiii
1904.....	54, 56 A	xiv
1905.....	59 A	xv
1906.....	6, 60 A	xvi
Ore from, photo.....	80, 81	xii
Photo of.....	55 A	xiv
Plan of.....	96, 67	xii
Rocks on and near	105, 106	xii
Ste. Brigide, IBERVILLE CO., QUE.		
Peat at.....	198	ii
St. Catherines, GRANTHAM TP., LIN- COLN CO.		
Beach at	227 A	xiii
Brick-yard in, notes.....	77 B	xv
Cement (hydraulic) made near..	108	ix
Gravel the site of.....	238 A	xiii
Natural gas at, boring for.....	161	i
	113, 114 A	xv
supplied to.....	105 A	xiv
	108 A	xv
Post office at, building-stone of..	96	i
Section from, to Abino pt.....	103 A	xiv
St. Chamond steel works.		
Nickel-steel plates made at... 151, 162		iii
	196	iv
St. Charles iron mine, NEAR MADOC, HASTINGS CO.		
Minor ref. to	20	xii
Notes on, 1898.....	32	viii
1900.....	128	x
1901.....	261	xi
Ore from, at Buffalo.....	86	xi
Chicago.....	82	ii
Work at, suspended, 1902.....	115	xii
St. Clair, MICH.		
Salt well in, log of.....	187	R C
lake. <i>See</i> Lake St. Clair.		
river, St. CLAIR LAKE.		
Canal at mouth of, notes by Blue.	107, 108	v
Natural gas in.....	151	R C
Salt on.....	55, 182	R C
method of working	190	R C
Syncline east of.....	54	i
Tunnel under, stone used for. 97, 107		i
	74 B	xiii
Sainte Claire Deville, E. H.		
Calorific power of petroleum de- termined by	166	vi

	Page.	Vol.
St. David, NIAGARA TP., LINCOLN CO.		
Beach at	227 A	xiii
Cement at.....	177	i
St. Denis, FRANCE.		
Nickel refinery at.....	156	ii
St. Dominique, BAGOT CO., QUE.		
Peat at	198	ii
St. Edmunds tp., BRUCE CO.		
Dolomite in. <i>See</i> Tobermory.		
St. Etienne, FRANCE.		
School of Mines at	494	R C
St. Eugene, HAWKESBURY E. TP., PRESCOTT CO.		
Limestone near	98 B	xiii
Consolidated Mg. Co.		
Capital and date of charter.....	9	xii
St. Francis lake, QUE.		
Calceiferous formation on (Hungry bay)	47 B	xiii
river, CHAUDIÈRE RIVER, QUE.		
Blast furnace in valley of.....	27, 28	ii
River Mg. Co.	27	ii
St. François, MONTMAGNY CO., QUE.		
Iron ores of	346	R C
St. George, Louis		
Mica mining by, Ferguson tp... 280		v
St. George, S. DUMFRIES TP., BRANT CO.		
Gas piped to.....	23 A	xv
lake, OSO TP., FRONTENAC CO.		
Apatite mining on.....	240	i
suspended	251	ii
<i>See also</i> Blessington mines.		
lake, NORTH CHANNEL, L. HURON	109	v
Saint George Mines Development Co.		
Capital and date of charter.....	10	ix
St. Gothard mt., LEPONTINE ALPS, SWITZERLAND.		
Corundum in.....	241	viii
St. Henry, OHIO.		
Natural gas in, depth and pres- sure.....	155	i
St. Hubert, CHAMBLY CO., QUE.		
Peat bogs at	197, 198	ii
St. Ignace, MICH.		
Charcoal furnaces at	339, 481	R C
	99, 100	ii
island, L. SUPERIOR.		
Agate on	192	ix
Calcite on	195	ix
Iceland-spar.....	194	ii
	200	ix
Copper on.....	36	R C
native.....	197	ix
Rocks on.....	37, 67	R C
trap.....	15	v
St. Jean, Napoleon	39, 41 A	xiii
St. Joe gold mine, MADOC TP., HAST- INGS CO.		
Notes on, 1898.....	89	vii
St. John, Phelias	55, 57	xi
St. John, St. JOHN CO., N.B.		
Lime industry of, notes by Bailey.	10 B	xiii
lake, ONTARIO CO.		
Limestone on.....	89 B	xiii

	Page.	Vol.		Page.	Vol.
St. John tp., Nip.			St. Mary sandstone.		
Soil in, and timber.....	125, 126	A XV	Age of.....	190	A XV
peat, analysis.....	128	A XV	Lake Superior.....	143, 164	viii
St. Joseph island, L. HURON.			Grindstone pt.....	189	A XV
Agricultural land on.....	103	iv	Poin e aux Mines.....	129	viii
Erie clay on, analysis.....	15	B XV	Notes on, by Coleman.....	126, 127	viii
Glaciation on, notes by Coleman.....	199	A XV	St. Marys, ANGLAISE CO., OHIO.		
Gold on, early discovery.....	114	R C	Natural gas in, depth and pres-		
Hur nian northward of.....	71	i	sure.....	155	i
contact with Silurian.....	38	iii	St. Marys, BLANSHARD TP., PERTH		
Iron on, metallic.....	191	ii	co.		
native.....	200	ix	Artesian wells at.....	59	i
Limestone on.....	84	R C	123	B xiii	
analysis.....	79	B xiii	Boring at for gas, proposed.....	21	x
quarried.....	178	ii	Calcite from.....	14	B xiii
Vegetables from, for Bruce mines.....	174	ii	Drift deposits W. of.....	69	B xiii
lake, ONT. AND KEE.			Fossils from.....	151, 152	xii
Distance from, to mouth of Pig-			<i>Panenka grandis</i>	126, 127	xi
eon river.....	197	v	Limestone at, analysis.....	151	xii
Huronian on and near.....	18	R C	boring in.....	51-53	xii
124	iv		for sugar fact ries. 3, 25	B xiii	
Iron on and near.....	22	R C	kilns and quarries.....	151, 152	xii
silver mine, OLIVER TP.,			14	A xiii	
Th. B. D.....	226	i	96	B xiii	
239	ii		photos.....		
St. Julien de Valgalques, FRANCE.			96, 97, 126, 127	B xiii	
Pyrites a.....	192	A xvi	Railway bridge at, photo.....	96, 97	B xiii
St. Lawrence co., N. Y.			St. Mary's Portland Cement Co.		
Marble of, character.....	80	R C	Capital and date of charter.....	37	A xiii
Pyrites mining in, notes.....	190, 191	A xvi	Quarries, Ltd.		
Marble Co. (GOUVERNEUR, U.S.)			Capital and date of charter.....	24	A xiii
Evidence <i>re</i> , before R. C.....	90	R C	Exhibits of, at Buffalo.....	25	A xv
Minor ref. to.....	63	B xiii	St. Maurice, CHAMPLAIN CO., QUE.		
river.			Peat at.....	198	ii
Corundum in sands of (Que.).....	214	vii	Smelter at.....	24	li
Fossils in valley of.....	50	R C	St. Patrick street, TORONTO.		
Glaciation on (Ont.), notes by			Paving of.....	17	v
Coleman.....	243, 244	A xiii	"St. Paul" ss.	188	iv
marine deposits.....	216	x	St. Paul, RAMSEY CO., MINN.		
Natural gas in.....	126	i	Brick pavements in.....	108	iii
Salt water in valley of (Que.)....	32	B XV	Cobalt Mg. Co.		
Saugeen clay on (Que.).....	32	B XV	Capital and date of charter.....	30	A xvi
Terraces on.....	227	x	portage, MISSINAIBI RIVER,		
St. Leon, MASKINONGÉ CO., QUE.			ALG.....	195	viii
Natural gas at.....	126	i	St. Peter falls, MISSINAIBI RIVER,		
"St. Louis" ss.	188	iv	ALG.....	195	viii
St. Louis, WASHINGTON, U. S.			145	A xiii	
Smelter at, cost of.....	392	R C	St. Petersburg prov., RUSSIA.		
Technical schools in.....	505, 508	R C	Peat in.....	216	ii
University at, notes by Richards.....	512	R C	St. Pierre, MARTINIQUE.		
St. Mary rapid, SAULT STE. MARIE.			Disaster at, caused by gas.....	93	A xiv
Fall of.....	151	viii	St. Rollox, GLASGOW, SCOTLAND.		
river, L. HURON.			Copper smelting at.....	403	R C
Beaches near, notes by Coleman.....	152	viii	St. Stephen, CHARLOTTE CO., N. B.		
Geology of, notes by Coleman....	126	viii	Pyrrhotite deposits at.....	88	i
Huronian on.....	158	viii	145	c xiv	
Marble on.....	76, 83	R C	St. Sulpice, L'ASSOMPTION CO., QUE.		
quarrying.....	13	B xiii	Peat at.....	198	ii
Quartzites north of.....	72	i	St. Thomas, YARMOUTH TP., ELGIN		
Sandstone of.....	133	vi	co.		
<i>See also St. Mary sandstone.</i>			Brick-yard at, notes.....	62, 63	B XV
Waterpower on.....	37	v	Car-wheel works at.....	329	R C
252	vii		Natural gas at, boring for.....	108	A xiv
91	xi		Water supply of.....	60	i
river, PERTH CO.			St. Vincent tp., GREY CO.		
Limestone on, boring in.....	52	xii	Brick-yard in. <i>See Meaford.</i>		
			Silurian rocks in.....	48, 49	B xiii

	Page.	Vol.
Sailor Consolidated Mg. & Milling Co.		
Capital and date of charter.....	10	ix
Sairey Gamp lake, NEAR MANITCU LAKE, R. R. D.		
See also Gold Standard Mg. Co.		
Gold mining on.....	100	x
suspended.....	250	xi
Minor ref. to.....	87	vi
Sakoose gold mine, NEAR DYMENT, R. R. D.		
Accident at.....	53, 57	xi
Notes on, 1900.....	91, 101, 102	x
Producing, 1902.....	15	xii
Work on, suspended.....	251, 255	xi
Mining Co.		
Capital and date of charter,.....	11	xi
Sala, I.	167	iii
Salem dist., MADRAS PRES, E. INDIA.		
Corundum in.....	231, 232	viii
Salina formation.		
Lambton co., thickness.....	98	A xiv
Port Colborne.....	129	i
Salisbury iron dist., U.S.		
Iron ore of.....	329, 342	R C
<i>Salix.</i> See Willow.		
" <i>nigra.</i> See Willow, black		
Salmon.		
James bay and tribes.....	133	iv
trout. See Trout, salmon		
Sals, Frank	33, 35	A xvi
Saloons.		
Dangers of, in mining camps....	57	A xiii
Salt.		
Area of fields.....	181 182, 210, 228	R C
Borings for, various logs	184, 187	R C
Canada, exports, 1881-87.	245	R C
production, 1870, 1880,		
1887.	209	R C
1888.....	525	R C
Connexion of, with duty on coal.	236	R C
Consumption of English and		
Canadian.....	236	R C
Distribution of, notes by Blue ..	178	i
Duty on, effect of.....	217	R C
Evidence <i>re</i> , before R.C.....	187-191	R C
Hardness of.....	448, 535	R C
	214	vii
Notes on, by Goodwin.....	223	vi
Onondaga formation.....	45	R C
	170	i
Production of, notes on pro-		
cesses.....	182-184	R C
Sperenberg, near Berlin, Ger-		
many.....	178	i
Statistics of, 1870, 1880	210	R C
1886, 1887.....	228, 243	R C
1888.....	72	R C
1891.....	6	i
1892.....	8, 11	ii
1893.....	7, 10	iii
1894.....	11	iv
1895.....	11, 20	v
1896.....	13, 32	vi
1897.....	13, 23	vii
1898.....	11, 17	viii
1899.....	12, 13	ix
1900.....	11, 12, 23	x

	Page.	Vol.
Salt.—<i>Con.</i>		
Statistics of.— <i>Con.</i>		
1901.....	13, 36	xi
1902.....	12, 13, 38	xii
1903.....	2, 4, 22	A xiii
1904.....	1, 3, 20	A xiv
1905.....	1, 4, 21	A xv
1906.....	4, 6, 23	A xvi
United States, Marine City..		
55, 187, 190		R C
production, 1887	228	R C
1888.	525	R C
royalty.....	14	i
Western counties, estimated		
area.....	33	vi
Wielieza, Galicia.....	178	i
Works producing, list of, visited,		
1899.....	111	ix
<hr/>		
Bothwell.....	55, 186	R C
Courtright	85	R C
boring for.....	186	R C
notes by Carter.....	191	R C
Enniskillen tp., depth of.....	26	v
Glencoe.....	160	R C
Goderich, boring for.....	185	R C
notes by McEwan. 54, 190		R C
Ransford... ..	189	R C
depth.....	55	R C
discovery.....	21	A xiii
ref. to Hunt's report. 184		R C
*works.....	111	ix
	22	A xiii
	20	A xiv
Kincardine.....	45, 55, 189	R C
boring.....	184	R C
notes by Merritt....	183	R C
works.....	22	A xiii
	20	A xiv
	23	A xvi
See also Ontario Peo-		
ple's Salt Co.		
Manitoulin island.....	167	R C
Moose river, possibility of.....	127	iv
Parkhill.....	55, 186	R C
Port Franks.....	55, 186, 190	R C
St. Clair river.....	55, 182	R C
method of working.....	190	R C
Seaforth, analysis.....	208	ix
boring for.....	185	R C
evidence before R.C.		
54, 55, 187-189		R C
Windsor, boring for.....	33	vi
process.		
For copper smelting, notes by		
Borron.....	403	R C
"Salting."		
Made a felony in Wyoming....	284	R C
See also Tin.		
Salt water. See Water, salt		
Salter tp., ALG.		
Agricultural land in.....	103	iv
Copper in.....	23	xi
mining.....	120	x
	81	xi
	98	xii
	79	A xiii

	Page.	Vol.
Salter tp.—Con.		
Copper in, mining.— <i>Con.</i>		
<i>See also</i> Herminia mine.		
Massey Station mine.		
Minor ref. to	63	A xiv
Saltfleet tp., WENTWORTH CO.		
Brick-yard in. <i>See</i> Fruitland.		
"Salty Jack" s.s.	84, 85	V
Salzburg, SALZBURG PROV., AUSTRIA.		
Arsenic mining near	101	xi
Samarskite.		
Lyndoch tp.	208	ix
Maisonneuve tp., Que.	237	vii
<i>Sambucus racemosa.</i>		
Abitibi Lake dist.	241	A xiv
Mattagami valley	150	A xv
Sammons, P. B.	118	vii
Sampson, Capt. William T.		
Notes by, on nickel-steel.	197	iv
W. J.	105	viii
Samson, Dr. James	126	i
Samuelson, Bernard	491	R C
San Augustin Mining Co.		
Capital and date of charter	12	vii
San Francisco, CAL.		
Paving clay from, analysis	120	iii
San Miguel mine, MADRID PROV., SPAIN		
Mispickel in	101	xi
Sancton, A. H.	67	A xv
Sand.		
Canadian exports of, 1881-87.	245	R C
For mortar. notes by Gillespie.	171, 172	A xiv
Missinaibi river, for glass making	128	iv
Bay copper location, Pt. MAMAINSE, ALG.		
Area of, and description	241-243	ii
68, 69		iii
Copper mining on	73-75	iii
Diabase in, petrography	170	viii
Exploration of, difficult	72	iii
Idle, 1897.	128	viii
Rocks on and near.	78, 79	iii
creek, L. NIPIGON.		
Iron mining near :—		
<i>See also</i> AL 412; HF 1; HF 4; HF 5.		
Minor ref. to	107, 110	A xvi
Pleistocene deposits on	135	A xvi
Rocks on, arkose (scarce).	145	A xvi
Iron formation.	143	A xvi
dunes.		
Brighton, photo	224, 225	x
flies. <i>See</i> Flies, sand		
Island river, REDGUT BAY, RAINY LAKE, R. R. D.		
Building-stone on	76	iv
Gneiss on, character.	78, 79, 94	iv
Schists on	85	iv
lake, N. OF GUNFLINT LAKE, TH. B. D.		
Iron ore near	69	ii
Minor ref. to	133	v
9		vi

	Page.	Vol.
Sand lake, PROUDFOOT TP., P. S. D.		
Rocks near, notes by Coleman.	171, 172	ix
-lime brick.		
Notes on, by Gibson	vi	B xiii
Point, McNAB TP., RENFREW CO.		
Iron mining at	138	R C
Limestone quarries at.	104, 105	B xiii
pt., LAC DES MILLE LACS, TH. B. D.		
Drift deposit at	74	v
Glacial striae near.	89	v
Minor ref. to	113, 117, 135	v
Vegetables at.	114	v
Point City, RAINY LAKE, MINN.		
Deserted, 1895	63	v
Gold mining near.	55	iv
Population of.	161	v
Point island, RAINY LAKE, U. S.		
Dike rocks on	93	iv
Gold mining near	55	iv
Sand beds on	76	iv
Surveys around, ref. to	40	iv
river, L. SUPERIOR.		
Beaches at mouth of.	153, 155	viii
Description of, by Coleman.	131	viii
Sandbar lake, DOG RIVER. <i>See</i> Obatonga lake.		
Sandcherry river, VERMILION RIVER, NIP.		
Beaches along	106	C xiv
Moraines east of	102	C xiv
Nickel ore near	199	A xiii
Sanders, E. H.	105	viii
George	187	vii
Samuel	200, 201	iv
Sandfly lake, ROBERTS TP., ALG.		
Iron range near	224	A xiii
Sandhill lake, W. OF PIPESTONE LAKE, R. R. D.	88	vi
portage, BLANCHE RIVER, NIP.		
Description of, by Miller	225	xi
Sandhurst, Vic. <i>See</i> Bendigo.		
Sandoe, Richard		
Manager, East End mine.	83	vii
96		viii
Tip-top mine.	53, 56	A xiii
61		A xv
61, 173		A xvi
Sandpiper.		
Abitibi dist.	253	A xiv
Sandstone.		
As a building-stone.	134, 135	iii
As strata for artesian wells.	51	i
Definition of.	541	R C
235		vi
Duty on, effect of	235	R C
Exhibit of, at World's Fair.	186	ii
Quarrying industry, 1890.	98-100	i
<hr/>		
Gill (near), notes	56	B xiii
Hudson and James bays.	86	i
194		viii
Inglewood (near)	110	ix
Lake Superior.	62, 74, 79, 235	R C
130, 132		vi
Thunder bay	233	R C

	Page.	Vol.		Page.	Vol.
Sandstone. — <i>Con.</i>			Saponite.		
Michipicoten div., petrographi-			L. Superior, N. shores, in copper-		
cal notes.....	183	ix	bearing rocks.....	131	vi
Gros Cap, notes by Willmott..	145	viii	Port Arthur silver dist.....	192	R C
Mono tp.....	110	ix	52, 57, 58 B	xiv	
Sudbury dist.....	206, 207	A xiii	Beaver silver mine.....	208	ix
Chelmsford, notes.....			Sapphire.		
10, 96-100, 133,	134	C xiv	Composition of.....	448	R C
Larchwood, photo.....	99	C xiv	Hardness of.....	448	R C
Sandt, G. F.	136	xii	202	vi	
Sandusky, OHIO.			Hastings co. (?).....	248	viii
Cincinnati group in.....	116	i	Kashmir.....	230, 231	viii
Fish curing at.....	66	iii	Mythical properties of.....	230	vii
Gypsum of, origin.....	120	R C	Notes on, by Goodwin.....	229	vi
Natural gas at, depth and pres-			Specific gravity of.....	202	vi
sure.....	155	i	Variety of corundum.....	216	vii
Sandwich, W. SANDWICH TP., ESSEX			Sardinia, ITALY.		
co.			Mineral lands in, sale of.....	297	R C
Bricks at, price of.....	15	A xiii	Sargeant, F. D.	63	viii
yard, notes on.....	64	B xv	W.....	32	xii
Natural gas, consumption of....	42	xi	Sargon (KING OF BABYLON)	108	iii
Petition by, re gas export to De-			Sarminen, Emil	45, 48	xii
troit.....	41	xi	Sarnia, SARNIA TP., LAMBTON CO.		
(West) tp., ESSEX CO.			Island portion of, notes.....	108	v
Salt and natural gas in. <i>See</i>			Oil refinery at.....	157, 165	R C
Windsor.			40	xi	
Sandy Bay portage, MISSISSAUGA			40	xii	
RIVER, ALG.....	195	viii	notes.....	101	A xvi
Hook, MONMOUTH CO., N. J.			<i>See also</i> Imperial Oil Co.		
Armour plate trials at.....	196	iv	Salt works at.....	22	A xiii
inlet, TIMAGAMI LAKE, NIP.			20	A xiv	
Greenstone on.....	172	x	Bay Lumber, Timber and		
lake, PETERBORO' CO.			Salt Co.		
Limestone on.....	97	B xiii	Capital and date of charter.....	24	A xiii
Trenton.....	113	B xiii	Operating. 1899.....	111	ix
Sandy lake, R. R. D.			1902.....	38	xii
Character of country near.....	176	vii	1903.....	32	A xiii
Description and geology.....	55, 56	v	1905.....	21	A xv
Gold on, indications.....	179	vii	tp., LAMBTON CO.		
prospecting.....	172	vii	Oil in.....	14, 15	viii
Rocks on and near.....	170	vii	industry, 1899.....	107	ix
Timber near, condition of.....	182	vii	<i>See also</i> Sarnia.		
portage, MATTAGAMI RIVER,			rocks containing.....	157	R C
ALG.			<i>Sarracenia purpurea.</i>		
Description of.....	118	A xv	Abitibi Lake dist.....	241	A xiv
Minor ref. to.....	186	A xiv	Mattagami valley.....	150	A xv
Rocks at.....	210, 211	A xiv	Sasagenaga Mining Co.		
132	A xv		Capital and date of charter.....	29	A xvi
Waterpower at.....	130	A xv	Sasaginaga lake, COLEMAN TP., NIP.		
portage, MONTREAL RIVER,			Minor ref. to.....	52	A xvi
NIP.			Rocks on.....	44	B xiv
Keewatin rocks near.....	44	B xiv	Saskatoons. <i>See</i> Bilberries.		
Turn of river at.....	36	B xiv	Sauer, Adolf		
river, NIPIGON LAKE, TH. B. D.			Analysis by, of graphitoid.....	166	vi
Iron-bearing rocks near.....	212	x	Saugeen clay.		
river, SANDY LAKE, R. R. D.			Analyses of. <i>See below</i> under		
Pine on.....	172	vii	Notes and Pembroke.		
Sanford, Joseph.	47, 48	xii	Arnprior.....	34	B xv
W. E.			Bracebridge.....	82, 83	B xv
Aid from, to Carbide Willson...	140	iv	Burks Falls.....	88	B xv
Marble quarry of.....	64	B xiii	Casselman.....	33, 34, 97	B xv
<i>Samicula marilandica.</i>			Credit Forks.....	167	i
Mattagami valley.....	150	A xv	Description of, and distribution.	51	R C
Sanitation.			For brick-making.....	167, 177	i
Moss litter for.....	197	ii	Fossils of.....	26	B xv
Saniter, H.			Huntsville.....	89	B xv
Process of, for desulphurizing			Larder lake.....	214	A xvi
metallic iron.....	92-95	ii	Named by Bell.....	4	R C
Sapawe. <i>See</i> Sabawe.			New Liskeard.....	84	B xv

	Page.	Vol.		Page.	Vol.
Saugeen clay.—Con.			Sault Ste. Marie.—Con.		
Notes by Gibson.....	126	iii	Rocks at and near :—		
and photos.....	18-27, 33 B	xv	Huronian.....	157	viii
North Bay.....	83 B	xv	Keweenaw.....	273 A	xiv
Ottawa and Paisley.....	19, 33 B	xv	sandstone.....	168	viii
Pembroke.....	19, 20, 33, 34 B	xv	Potsdam.....	86	i
analysis.....	96 B	xv	Steel plant at.....	46	R C
Plantagenet.....	34 B	xv	204	204	v
Position of, in Palæozoic.....	53	i	3 B	25	xi
Powassin.....	88 B	xv	44 A	3 B	xiii
Sault Ste. Marie.....	57 B	xv	17 A	44 A	xiv
Slaking of.....	39 B	xv	17 A	17 A	xvi
Sturgeon Falls.....	84 B	xv	<i>See also</i> Algoma Steel Co.		
Sudbury, for furnaces.....	56 B	xv	Sulphide pulp mill at.....	38	xii
Vankleek Hill.....	34 B	xv	Works at, of L. Superior Power		
Walkerton.....	19, 33, 60 B	xv	Co., notes.....	66, 67	xi
Whitefish.....	57 B	xv	<i>dist., ALG.</i>		
Oil Co.			Copper in.....	23	R C
Capital and date of charter.....	9	xii	Gold and silver in...59, 60, 106,	203	R C
river.			Iron in.....	123, 205	R C
Cement works on.....	143 A	xiv	Silver in.....	203	R C
Onondaga formation on.....	45	R C	Light and Power Co...	61	x
Lithographic stone on.....	45	R C	Mining div.		
36 B	36 B	xiii	Creation of.....	36 A	xvi
Saugeen clay on.....	18 B	xv	Description of.....	40 A	xvi
tp., BRUCE CO.			Nickel Mg. and Agency		
Boring in, for salt. <i>See</i> Port			Co.		
Elgin.			Capital and date of charter.....	12	vii
Saukville, OZAUKEE CO., WIS.			North Shore Mg. Co.		
Diamond found at.....	121	ix	Capital and date of charter.....	12	vii
Sauls, J.			Pulp and Paper Co....	197	viii
Brick-yard of, Tamworth.....	56 B	xv	61	61	x
Sault Gray Copper Co.			62	62	xi
Capital and date of charter.....	9	xii	railway, ALG.		
Work by, McMahon tp.....	273	xi	Rocks along, notes by Coleman.	163	viii
Sault Prospecting & Development			Saults, Mrs. W. W.....	118	ix
Co.			143	143	x
Capital and date of charter.....	9	xii	Saunders, Cole.....	80 A	xiv
Copper Queen mine owned by..	99	xii	90 A	90 A	xv
Work by, Morin tp.....	272	xi	76 A	76 A	xvi
Sault Ste. Marie, MICH. AND ONT.			Thomas G.....	247	iv
Accident at, shooting rapids ...	109	v	Saussurite.		
Agricultural land near.....	103	iv	Rainy River dist., in gabbro....	208	ix
Beach near.....	168	viii	Sauve, Napoleon.....	173	iii
175	175	ix	Savage, Anthony.....	201, 206	iv
Brick-yard at, notes.....	57, 58 B	xv	H. E.....	40, 45 A	xv
clay for.....	20 B	xv	James		
analysis.....	27 B	xv	Gold prospecting by, L. of the		
Calcium carbide plant at.....	37	v	Woods.....	102	vi
Canals at, notes by Blue ...	109, 110	v	R. E. See Savage silver mine.		
Caustic-soda works at.....	14 B	xiii	Cobalt Silver Mg. Co.		
Established, 1670.....	197	v	Capital and date of charter.....	26 A	xv
Iron ores near, notes by Cole-			Mines of Cobalt, Ltd.		
man.....	187, 188	x	Capital and date of charter.....	30 A	xvi
Metallurgical industries at, paper			Work by, 1905.....	86 A	xv
by Speller.....	61-68	x	silver mine, COLEMAN TP., NIP.		
Mineral industries of, paper by			Notes on, 1905.....	86 A	xv
Willmott.....	91-100	xi	Owners of.....	52 A	xvi
Minerals in dist. of, evidence be-			Savanne. See Savant.		
fore R. C.....	59, 60	R C	Lumber Co.....	113	v
Mining class at, 1895.....	6, 217	v	Savant, TH. B. D.		
1896.....	198	vi	Country between, and Mine Cen-		
1897.....	260	vii	tre, notes by Blue.....	135-154	v
Recorder's office at.....	36 A	xvi	Distance from, to L. Shebando-		
Photos of.....	96, 97	xi	wan.....	117	v
old channel and plant.....	64, 65	x	Geology of dist. of.....	74	v
			Gold near.....	230	iv
			Navigation between, and Baril		
			portage.....	121	v

	Page.	Vol.		Page.	Vol.
Savant lake, Th. B. D.			Sawden, T.		
Alluvial gold mining on	18, 149	xi	Brick-making by, Toronto	108 B	xv
Magnetite on, notes by Miller . . .	313	xii	Sawtooth hills, L. SUPERIOR.		
Notes on, by McInnes	88	xii	Laccolithic sills of	256 A	xiv
Photo. of island in	96, 97	xii	Sawyer, Alexander	143	R C
Route to, from Sturgeon lake,			Bannell	83	viii
description	87, 88	xii	E. L.	43	ix
river, LAC DES MILLE LACS.			bay, L. SUPERIOR.	90	ix
Absence of rock outcrops on . . .	74	v	Terraces near	137	vi
Character of	113	v	Slates near	138	vi
Glacial striae on	89	v	<i>Saxicava.</i>		
Minor ref. to	117	v	Ogdensburg, N. Y., near	242 A	xiii
Savard, Jerry	133	vii	Payne river	219	x
	42	viii	<i>" rugosa.</i>		
Saville, Thomas			Abitibi river	189	viii
Silver found by, James tp	8 A	xvi	Crysler (near)	218	x
Savoy iron mine, ELY, MINN.	152	ix	Finch	217	x
	175	xi	James bay	143 A	xiii
Savva, Morozoff & Co.	217	ii	Missinaibi river	162 A	xiii
Saw (s).			Ottawa	216, 224	x
Canadian imports of, from U. S.,			Saxicava sand	32 B	xv
1887	468	R C	Saxicava sand.		
Saw Bill gold mine, SAWBILL LAKE,			<i>See also</i> Clay, Leda		
R. R. D.			Description of, and notes on	32 B	xv
Accident at	26	viii	Economic uses of	227	x
Idle, 1900	105	x	Ottawa dist.	216, 217	x
Notes on, 1896	4	Bull. i	Saxony.		
	53, 54, 76, 266	vi	Arsenic in, mining	101	xi
1897	63, 64, 130	vii	production	110	xi
1898	41, 42, 88	viii	Cobalt in	61, 62 B	xiv
1899	78, 79	ix	early history, translation of		
Photos of	64	vi	paper by Bruehmueller	74-90 B	xiv
	32, 33, 97	vii	Graphitoid from, analysis	165, 166	vi
Section of	77	ix	Moss litter made in	212	ii
Lake Gold Mg. Co.			Nickel first produced in	146 C	xiv
Capital and date of charter	7	vi	Sayers, Edward		
	12	vii	Statement by, <i>re</i> fowls, Caribou		
Work by. <i>See</i> Saw Bill g m.			island	132	viii
Sawdust.			hostile Indians	129	viii
Gas from, for smelting	390, 393, 483	R C	Work by, 1898	121, 135	viii
Saw fly, American			H.	105	vii
Abitibi dist.	128 A	xiii		105	viii
larch			J.	105	vii
Abitibi dist.	128 A	xiii		105	viii
	214 A	xiv		118	ix
Mattagami valley	189 A	xiv		142	x
mills.			Glen lake, MICHIGICOTEN DIV.		
Lime-burning at, notes by Miller .	10 B	xiii	<i>See also</i> Helen iron mine.		
Sweden, in connexion with iron			Depth of	155	ix
foundries	483	R C	Iron pyrites on	183 A	xv
Sawbill falls, OPASATIKA RIVER, ALG.			notes	255	viii
Rocks at	256	v		169 A	xvi
lake, R. R. D.			Origin of	194	x
Gold in, discovery	70	v		171	xi
mining	53, 54, 267	vi	Photos of	176, 177	xi
1897	131, 132	vii		188 A	xv
1398	87-90	viii	Rise to, from Talbot lake	153	xi
notes by Coleman	4	Bull. i	Rocks on and near	156	ix
	76, 77	vi		191	x
prospects	34	vii		158, 168, 179	xi
<i>See also</i> Hammond Reef m.			breccia, photo	176, 177	xi
Saw Bill m.			Grüenerite schist	184	xi
Granite on	103	v	Iron formation	130	xi
	116	vi	<i>Sayornis phoebe.</i> <i>See</i> Phoebe.		
	65	vii	Scadding tp., Nip.		
altered	87	v	Gold mining in	77	xii
Indians at, photos	48, 49	vi	Scaife Foundry and Machine Co. . .	120	ii
Trail to, cut by Govt.	10	vi	Scale of hardness. <i>See</i> Hardness.		
Waterpower on	66	viii			
	90	viii			

	Page.	Vol.		Page.	Vol.
Scales.			Schelin, T. J.	105	vii
Canadian imports, 1881-87	252	R C		67	xii
Factories for, Canadian, statistics, 1881.....	116	ii	Schenmitz, HUNGARY.		
lake, NEAR WARTON, BRUCE CO.			Mining school at.....	513	R C
Marl in	140	A xiv	Scherk, Dr.	202	iv
Scandinavia.			Scheurer, Kestner Auguste		
See also Norway and Sweden.			Calorific power of coals determined by.....	166	vi
Archæan rocks of	70	i	Schiffler Bridge Co.	119	ii
Iron industry of, 470-472, 479, 483, 484		R C	Schimper, Prof.		
Nickel deposits of, origin.....	236	xii	Notes by, on origin of peat	182	i
Peat industry in, notes on....	218-220	ii	Schists.		
Scania prov., SWEDEN.			Abitibi dist., petrographical notes	211	A xiv
Peat in	219	ii	Diorite changed into, by water, diagram.....	189	xi
Scaphopoda.			Nipigon Lake dist., notes by Coleman.....	131	A xvi
Kwataboahegan river.....	188	A xiii	lake, NEAR PIPESTONE LAKE, R. R. D.		
Scapolite (WERNERITE).			Minor ref. to	88	vi
Associated with apatite.....	442	R C	Rocks on.....	61	iv
Lanark co....	440	R C	conglomerate.....	184	ix
Renfrew co....	438	R C	<i>Schizoneura tessellata.</i> See Alder blight.		
Exhibited at World's Fair.....	188	ii	Schlagel—?		
Formation of.....	225	vi	Peat kilns of	208	ii
Harcourt tp.....	48	xi	Schlesinger Syndicate.	146	iii
Hardness of	202	vi	Schlickeysen, C.		
Hinchinbrooke tp., notes by Miller.....	229	viii	Peat process of	193	i
Notes on	209	ix	Schliemann, Dr. Heinrich	167	i
Specific gravity of.....	202	vi	Schnabel, Carl		
hornblende rock.			Notes by, on arsenious oxide....	118	xi
Micro-photo of.....	216, 217	viii	Schneeberg, SAXONY.		
Scarborough, SCARBOROUGH TP., YORK CO.			Cobalt-silver mining in.....	74-90	B xiv
Beach from, to Colborne.....	230	A xiii	output, 1904.....	62	B xiv
Gravel bars at.....	227	x	Nickel first produced at	146	C xiv
Wave action at heights near, effect of.....	230	A xiii	Schneider & Co., Henri	501	R C
Scenery.			150, 151, 156	iii	
Abitibi river, northern portion..	190	viii	Schnelle, F. O.		
L. of the Woods.....	14	iii	Ref. to paper by, on magnetic separation.....	342	xii
	170	v	Schnorr, Hans	86	B xiv
L. Superior, north shore.....	146	viii	Schoelkopp, Hartford & Hanna Co.	122	xi
Otter head (near) ..	134	viii	Schoenberger & Co.		
Montreal river (near).....	130	viii	Iron output of, 1893.....	119	ii
Michipicoten div.....	298, 299	A xiv	Schoennmann, G.	143	x
	200, 201	A xv	Schofield, T. H.	124	vii
Moose River basin.....	178	A xiii	Schonichen, F.		
Rainy river.....	208	v	Notes by, on pyrites deposits of Spain and Portugal	172	A xvi
Schaefer, F.			School of Practical Science, TORONTO.		
Brick-yard of, Breslau, notes and photo.....	103	B xv	Analysis by, of iron ore from Belmont tp.....	61	ii
E. J.	143	x	Description of.....	193, 195	vi
	75	xi	Location of, justified.....	419	R C
F.	67	xii	Mill at, photo.....	176, 177	v
Schafhautl, Charles			tests with.....	212, 213	v
Method of, for refining nickel ores	219	ix	Notes on	215	i
Schaler, William	98	x		57, 58	x
Schaud, GERMANY.			Photos of.....	48, 49	x
Nickel at.....	146	C xiv	Report on, for 1897.....	263-265	vii
Scheele's green.			Schools.		
As an insecticide.....	113	xi	See also Mining schools.		
Scheelite (TUNGSTATE OF LIME).			Method of forming, in country districts	137	iv
Description of.....	217	vi	Schorl. See Tourmaline and Indigolite.		
Hardness of.....	202	vi			
Otago dist, N. Z.....	517	R C			
Specific gravity of	202	vi			
Schelin, C.	143	x			
G.	143	x			

	Page.	Vol.
Schreiber, Th. B. D.		
Bridge near, cost of.....	34	vii
Iron pyrites near.....	207	ix
mining.....	150, 177 A	xvi
See also McKellar mine.	78	vii
Morley mine.		
Otisse mine.		
Mispickel near.....	106	xi
Schroder, Julius	223	vii
Schroeder-Grillo process.		
For sulphuric acid manufacture..	195 A	xvi
Schroutz, C. C.	64	vii
	92-94	viii
S. B.	64	vii
	167	i
Schubze, Ernst		
Analysis by, of anthracite, Penn.	166	vi
Schuchhardt, Dr. C.	167	i
Schuerer, Christian		
Glass works of, at Neudeck.....	74 B	xiv
Schungite.		
Onega lake, Russia, analysis.	165, 166	vii
Schurman, H.	101	xii
Schuttpelz, H.	105	vii
	105	viii
Schuylkill river, PA.		
Iron industry in valley of.....	117	ii
ores.....	474	R C
Schwab, Charles M.	22	xi
	172 C	xiv
Schwartz, Dr.		
Analyses by, of Venetian enamels.....	119, 120	xi
Schweitzer, Dr. H.		
Tests by, on carbide.....	155	iv
Schwendiman, F. W.		
Cement making by.....	32	xi
	31	xii
	18 A	xiii
	18 A	xv
analysis.....	183 A	xiv
quarry and plant, notes.	165 A	xiv
Iron mining by, Robertsville mine.....	104	ix
	128	x
Sclater, J.		
Limestone quarries of, Downie tp.	28	xii
	96 B	xiii
photos...96, 97, 126, 127 B	5 R	xv
Scoble and Parker	119	ii
<i>Scolecophagus carolinus.</i> See Blackbird, rusty		
Scootamata river, MOIRA RIVER.		
Rocks on.....	200	ix
marble.....	63 B	xiii
See also Actinolite, Ont.		
Water-power on.....	98	vii
Scotchman's United mine, VICTORIA, MICH.		
Deflection of bore-hole in.....	225	v
Scotland.		
Archæan rocks of.....	70	i
Gold in, alluvial.....	115	R C
24 M.I.		

Scotland.—Con.

	Page.	Vol.
Iron in.....	22	i
industry, notes.....	361	R C
smelting.....	358	R C
	121	ii
price in Hamilton.....	401	R C
Nickel-steel experiments in....	xxiii	R C
See also Riley, James		
Oil shales in.....	42	R C
Peat in, preparation.....	187, 188	i
Sewer-pipe from.....	86	R C
Scott, A.	49 A	xvi
A. M.	22	x
Albert		
Surveys by, Michipicoten div., 1902.....	279 A	xiv
J. H.		
Guide to Coleman, 1906.....	105 A	xvi
Iron mining by, Michipicoten div.	118, 158	ix
See also Scott camp.		
J. J.		
Director, Victoria silver mine...	147	R C
Gold mining by, Marmora tp....	56	iii
J. L.	208	xii
J. M.		
Brick-yard of, near Meaford....	65 B	xv
M. J.	98	xii
R.	43 A	xiii
Robert		
Brick-yard of, Perth.	76 B	xv
Sturgeon Falls....	84 B	xv
analysis of clay....	26, 27	B xv
W.	112	xii
William		
Gas well of, Caledonia.....	284	v
Scott and Pattullo.		
Quarrying by, Credit Forks....	98	i
Scott, J. N. & Co.	119	ii
camp, N. OF BRANT LAKE, ALG.		
Iron deposits of.....	331 A	xiv
Map of, geological.....	336, 337 A	xiv
Minor ref. to.....	293 A	xiv
Trough near.....	339 A	xiv
Soil near, notes.....	176 A	xiii
island, SEINE BAY, RAINY LAKE, R. R. D.		
Gold mining on.....	83	vi
lake, MICHIPICOTEN DIV., ALG.		
Nomenclature of.....	158	ix
quarry, NEAR RENFREW.		
Analysis of limestone from.....	106 B	xiii
Scotty island, L. OF THE WOODS, R. R. D.		
Gold mining on, 1898.....	42	ix
Minor ref. to.....	181, 185	v
Scovil, Dr. Simmons S.		
Mikado gold mine located by...	105	vi
Minor ref. to.....	50	v
Part owner, Sultana mine.....	16	iii
Scovil-Moore gold mine. See Nina mine.		
Scramble gold mine, JAFFRAY TP., R. R. D.		
Bought by Keenora Mg. and Milling Co.....	96	xii
Depth of, 1899.....	35	ix
Idle, 1899.....	37	ix

	Page.	Vol.		Page	Vol.
Scramble gold mine.—Con.			Sebastopol tp.—Con.		
Notes on, 1895.....	186	v	Corundum in	233	vii
1896.....	49, 108	vi	.....	224	viii
1897.....	58, 59	vii	Feldspar, aventurine, in.....	195	ix
1898.....	109, 110	vii	orthoclase.....	188	ii
Rocks in, Couchiching	153	vii	.....	205	ix
sandstone	110	vii	Hornblende crystals in	199	ix
.....	183, 184	ix	Limestone in	102 B	xiii
.....	136	xi	Cambro-Silurian....	104 B	xiii
Scramble Gold Mining Co.			Nepheline-syenite in.....	226, 229	vii
Capital and date of charter.....	13	vii	.....	224	viii
Scranton—?			Pyroxene in	207	ix
Analysis by, of iron ore from Bel-			Titanite in.....	224	vii
mont tp.....	61	ii	.....	211	ix
G. G.	105	vii	Zircon in	188	ii
Scranton, GREEN CO., IOWA.			.....	228	vi
Blast furnaces at, reason for lo-			.....	219, 224	vii
cating	127	ii	.....	212	ix
Scrap iron.			Sebenius, J. U.	270 A	xiv
Statistics of. See Iron statistics.			Secondary deposits.		
Screws.			Definition of.....	451	R C
Canadian factories of, 1881.....	116	ii	Secord—?		
imports, 1881-87..	248, 253	R C	Copper prospecting by, 1852 ;		
Scrofulous diseases.			suicide of.....	194	R C
Among Indians, Abitibi dist....	186	viii	J. L.	75	xi
Scudder, Prof. Samuel H.			Laura.	163 A	xiv
Insects determined by, from near			Sections.		
Ottawa	225	x	See also Sections of mines and		
Scugog river, VICTORIA CO.			Microphotos.		
Fossiliferous limestone opposite			Abino pt. to St. Catherines	103 A	xiv
mouth of	113 B	xiii	Abitibi river, lignite	174 A	xiii
Scullion, Michael	42 A	xv	Barriefield common, Kingston..	231	vi
<i>Scutellaria canescens.</i>			Bosanquet tp., shales and lime-		
Abitibi Lake dist.....	241 A	xiv	stones	68 B	xiii
“ <i>galericulata.</i>			Clay (Erie and Red-top)	16 B	xv
Abitibi Lake dist.....	241 A	xiv	London, Ont.....	80 B	xv
Mattagami valley	151 A	xv	Credit Forks escarpment	73	R C
“ <i>lateriflora.</i>			Crow river, Hastings co.....	59, 60 B	xiii
Abitibi Lake dist.....	241 A	xiv	Decomposer for nickel extraction.	112	viii
Mattagami valley	151 A	xv	Eastern Ontario gold belt, hypo-		
Sea-level.			thetical.....	187	xi
Eastern Canada, in early times..	222	x	Hamilton formation, Thedford..	70 B	xiii
Seaforth, TUCKERSMITH TP., HURON			*to Courtright....	100, 101 A	xiv
CO.			Hematite mt.....	196	x
Brick-yard at.....	71 B	xv	Joachimsthal, Bohemia, showing		
Onondaga formation at	45	R C	mineral veins.....	63 B	xiv
Salt at, boring for	185	R C	Julia river, rocks near mouth..	336, 337 A	xiv
evidence before R.C. 54, 55, 187,	189	R C	L. Superior basin, hypothetical.	77	iii
works	22 A	xiii	McKay mt., near Fort William..	39 B	xiv
.....	20 A	xiv	Manitoulin island :—		
Seager camp, NEAR SHOAL LAKE,			Cambro-Silurian strata	76 B	xiii
SEINE RIVER, R.R.D.....	154	v	Cape Robert and Gore bay..	77 B	xiii
Seagriff—? (1826)	17	ii	Pine lake.....	156	R C
Seaman, Prof. A. E.			West bay (near).....	79 B	xiii
Minor ref. to.....	269 A	xiv	Maple lake, Michipicoten div.,		
Views of, re rocks in Michigan			rocks near.....	336 A	xiv
copper ranges.....	144	ix	Marmora dist.....	106	R C
Seaman, Sleeth & Black.	120	ii	mill furnace.....	59	iii
Searchmont, ALG.			Milton brick-yard.....	78	R C
Kiln-plant at	23	xii	Mount Healey, near.....	52 B	xiii
Seaver, J.	75	xi	Murray mine to Windy lake... With	c	xiv
Sebastopol tp., RENFREW CO.			Niagara formation, Welland canal.	98 A	xiv
Amazonite in.....	193	ii	Nickel-bearing eruptive, hypo-		
.....	193	ix	thetical.....	288, 289	xii
Apatite in	194	ix	Pyrites deposit, ideal.....	187 A	xvi
mining	170	R C	Sand bay, L. Superior, inland... With	79	iii
Asbestos in.....	195	ix	Soweska river, lignite seam....	167 A	xiii
Biotite and calcite in.....	195	ix	Spanish river, clay beds	21 B	xv
Boulders in, Silurian	213	vii	Thessalon (near).....	158	viii

	Page.	Vol.		Page.	Vol.
Sections.—Con.					
Topeka, Kan., showing Melan arches.....	178	A xiv	Seegmiller, N.		
Trenton formation, Montreal....	97	A xiv	Report by, 1904, as Mining Agent at Kenora	34	A xiv
Vermilion series, hypothetical..	124	R C	Seely Bay, LEEDS TP., LEEDS CO.		
Wanapitei river, sand deposits..	182	vi	Dike near, notes ; graphite near. 230, 231		vii
Welland and Lambton oil fields. 97, 98		A xiv	Seelye, R. W.		
of mines.			Acknowledgments to.....	299	A xiv
Badger silver mine.....	193	R C	Consulting engineer, Radnor iron mine	80	A xvi
Beaver silver mine.....	192	R C	Manager, Continuity mine.....	139	x
Blairton iron mine.....	127	R C	Frances mine	71	xi
Burley gold mine.....64, 65		viii	63		xii
Chandler iron mine	174	xi	Helen mine.....59, 60		A xiv
Coe Hill iron mine.....	127	R C	70, 188		A xv
Copper Cliff nickel mine	259	xii	72		A xvi
42		C xiv	Josephine mine	47	A xiii
Crawford's sand pit, Hamilton..	228	A xiii	W. E.	26	A xiv
Evans nickel mine	262	xii	Seemoe, Joe	198	A xiii
49		C xiv	68		C xiv
Foley gold mine	69	vii	Seeger, Dr. Herman		
65		ix	Inventor of Seger cones.....	39	B xv
Foxton apatite mine.....	168	R C	Notes and illustration of same..	40	B xv
Gatling gold mine.....	107	R C	Seguin river, GEORGIAN BAY, L.		
Goetz claim	182	A xv	HURON.		
Golden Star gold mine....64, 65, 295		viii	Rocks near mouth of.....	166	ix
69		ix	Striae on, direction.....	178	ix
Helen iron mine, east of.....	156	ix	Seih, C. J.	244	xi
Howland iron mine.....	131	R C	Seine bay, RAINY LAKE.		
Mikado gold mine.....	53	ix	Anorthosite on.....	92	iv
Murray nickel mine.....	253	xii	63, 98		v
53		C xiv	Beryl on	237	vii
Olive gold mine.....	73	ix	195		ix
Ophir gold mine	44	iii	Gold mining on and near.....55, 58		iv
206		iv	Iron on, magnetite.....	74	iv
Perth mica mine.....	148	R C	304		xii
Playfair iron mine	139	R C	mining	141, 266	xi
Quebec copper mine	103	R C	Minor refs. to.....	40	iv
Regina gold mine	41	vii	83		vi
45		ix	Scenery of.....	160	v
Sawbill gold mine.....	77	ix	Manitou Gold Mg. Co.		
Silver Islet silver mine	196	R C	Capital and date of charter	7	vi
Smith and Lacey mica mine	148	R C	12		vii
Stobie nickel mine	264	xii	river, RAINY LAKE.		
59		C xiv	See also Seine River dist.		
Sultana gold mine	39	ix	Agricultural land along.....	45	iv
Victoria nickel mine.....272, 273		xii	91		v
28, 29		C xiv	Character of.....	203	v
Wilbur iron mine.....	129	R C	Description of.....68-72, 148-154		v
Worthington nickel mine	271	xii	Glacial striae on	89	v
30		C xiv	Gold on.....64, 118		R C
Security Gold Mg. and Develop-			See also the separate portions.		
ment Co.			Iron ore on.....20, 22		R C
Capital and date of charter	12	vii	titaniferous.....	70	ii
Seddon, W. D.	105	vii	Notes on, by Coleman..73, 74, 77, 78		vi
<i>Sedeltophaga ruticilla.</i> See Redstart, American			Photos of portions of.....80, 81		v
Sedgwick, Prof. Adam			32, 33		vi
Cambrian system named by	31	R C	224, 225		x
William			Portages on, cut by Govt.....	9	vi
Notes by, on iron ores near Gun- flint lake.....126, 127		R C	Rocks on, anorthosite.....	88	iv
ref. to.....	66	ii	226, 227		viii
<i>Sedum latifolium.</i> See Labrador tea.			granite, petrography. 96, 97		v
Seebohm, Harry			greywacké.....	87	iv
Notes by, on manufacture of cru- cible cast steel	471	R C	Huronian	18	R C
			limestone	100	B xiii
			porphyrites	84	iv
			Surveys on, ref. to.....	40	iv
			Waterpower on	43	iv
			252, 253		vii

	Page.	Vol.		Page.	Vol.
Seine River and Rainy Lake Exploration Co.	129	vii	Selwyn, Dr. Alfred—Con.		
	76	viii	Views of, <i>re</i> Huronian gold mine.	80, 123, 125	v
River City, SHOAL LAKE, R. D.			Pictou (N.S.) iron deposits.....	398	R C
Building of.....	65	v	lake, NORMAN TP., NIP.		
Description of.....	160	v	<i>See also</i> Whistle mine.		
River dist., R. R. D.			Nickel range on.....	284	xi
Gold industry in, 1894.....	227-230	iv	Shape of, conforms to strike of rocks.....	202	A xiii
1895.....	62-72	v		73	C xiv
1896...54-56, 72-83,			Semple, Parlan	26	iii
266, 267		vi	Seneca Copper and Nickel Mg. Co.		
1897...62-75, 123-131		vii	Capital and date of charter.....	9	viii
1898...41, 42, 76-95,			Licence to.....	9	viii
263-274, 277, 278		viii		118	ix
1899.....64-82		ix		143	x
1900...79-85, 93-96,				75	xi
103-107		x	tp., HALDIMAND CO.		
1901.15, 150, 239-246		xi	Gypsum in.....	53	B xiii
cheap transport			Natural gas in. <i>See</i> Caledonia.		
for.....	248	vi	Sentinel Consolidated Gold Mg. Co.		
future of, notes			Capital and date of charter.....	9	viii
by Blue.....	8, 9	v	gold mine, LABYRINTH BAY, L. OF THE WOODS.		
Iron mining in. <i>See</i> Atikokan.			Notes on, 1898.....	64	viii
Map of.....	With Vol.	iv	Separation lake, NIP.		
Report on, by Coleman.....	55-60	iv	Description of.....	112	A xiii
ref. to.....	3, 4	v	Diorites near.....	119	A xiii
River Gold Mg. Co.			Minor ref. to.....	109	A xiii
<i>See also</i> Ferguson mine.			Septemes, NEAR MARSEILLES, FRANCE.		
Foley mine.			Nickel refinery at.....	151	ii
Formation of.....	80, 259	vi	Sergeant—?	82	A xvi
River Syn. Mg. Co.	79	ix	Sericite.		
Seip, G.	105	vii	Definition of.....	541	R C
Seitz, Michael	117	x	schist.		
<i>Seiurus noveboracensis.</i> <i>See</i> Thrush, water			Seine river.....	74	vi
Selby, H. W.	149	xi	Sturgeon falls.....	134	xi
street, TORONTO.			Wabigoon Lake dist.....	183	vii
Paving of.....	17	v	Serpent river, L. HURON, ONT.	119	iv
Selenite.				63	A xiv
Definition of.....	541	R C	Serpents.		
Determination of.....	222	vi	Caribou island, L. Superior (mythical).....	111	v
French river, Moose river.....	192	viii	Serpentine.		
Harricanaw river.....	158	A xiii	Addington co.....	91	iii
Occurrences of.....	208	ix	Bedford and Belmont tps.....	209	ix
Selenium.			Canada, production.....	1886-87, 243	R C
Black river (near), L. Superior.	209	ix	Darling tp.....	83	R C
Selkirk, Lord			Description of.....	541	R C
Quarrel between, and Northwest Co.....	197, 198	v	Determination of.....	205	vi
Selkirk, WALPOLE TP., HALDIMAND CO.			Eastern Townships, Que.....	150	C xiv
Natural gas at.....	108	A XV	Exhibit of, at World's Fair..	186, 189	ii
Gas and Oil Co.			Hardness of.....	202	vi
Capital and date of charter.....	26	A XV	New Caledonia.....	149	ii
Sellwood, Henry				68, 69	B xiv
Notes by, on Chandler mine, Ely.	126	R C	Frederick House river.....	178	viii
<i>Selurus aurocapillus.</i> <i>See</i> Oven bird.			Hastings co.....	91	iii
Selwyn, Dr. Alfred			Actinolite, Ont.....	82	R C
Average elevation of Archæan areas given by.....	193	v	Marmora tp.....	209	ix
Evidence by, before R.C. <i>re</i> :—			Huronian areas, notes by Bell..	81	i
geological maps.....	423	R C	Leeds tp., mining.....	297	xi
mining in Ontario.....	65, 69	R C		13	A xiii
	31	B xiii	Long-point lake, near Green-water lake.....	81	v
laws.....	313	R C	Nipigon river.....	233	R C
Ref. to surveys by, Lac Seul....	53	v	North Burgess tp.....	209	ix
"Rice rock" of, ref. to.....	8	C xiv			

	Page.	Vol.		Page.	Vol.
Serpentine. — <i>Con.</i>			Seymour, F. E.		
Pigeon lake, Montreal lake, analysis.....	82 B	xiii	Evidence by, before R. C.....	389	R C
Rainy River dist:—			ref. to.....	323	R C
Despair and Clearwater lakes.			Notes by, on his father's furnace.	22	ii
	50, 93	iv	<i>See also</i> Seymour iron mine.		
	209	ix	Uriah		
possibility of asbestos in....	73, 76	iv	Blast furnace at Madoc built by.		
Notes on, by Goodwin.....	227	vi		323, 324	R C
Specific gravity of.....	202	vi		22, 37	ii
Three A. mine, Thunder bay...	28	R C	W. L.	118	ix
fibrous. <i>See</i> Actinolite.				143	x
Servia.				75	xi
Nickel coinage in.....	161	ii	iron mine, MADOC TP., HAST-		
Service=berry.			INGS CO.		
Abitibi dist.....	126 A	xiii	Exhibit from, at Buffalo.....	86	xi
	241, 253 A	xiv	Minor ref. to	133	R C
Michipicoten div.....	296 A	xiv	Ore of.....	36, 38	ii
Mattagami valley	150 A	xv	analysis.....	54, 55	ii
Moose River basin.....	176 A	xiii	notes by Macfarlane....	39, 40	ii
Sesekimaka lake, BLANCHE RIVER,			Vennor.....	41, 42	ii
NIP.			Notes on, 1900.....	129	x
Notes on, by Bolton.....	181	xii	Rocks in.....	54	ii
Seven=mile lake, SOUTHEAST ALG.			Syncline in.....	51	ii
Description of.....	167	xii	Uran-ochre in.....	233	vii
Forest fires near.....	168	xii	tp., NORTHUMBERLAND CO.		
(OBICUNIMAGUNK) lake, N. OF			Magnetite in	202	ix
METEOR LAKE, ALG.			Trenton formation in.....	88, 89 B	xiii
Gold mining near.....	156	x	Sgoblom, W.	56, 57	xi
(OBICUNIMAGUNK) river, MAT-			Shad bush. <i>See</i> Service-berry.		
TAGAMI RIVER, ALG.			Shafer, F.	49 A	xiii
Description of.....	181	x	Shaft island, ABITIBI LAKE, NIP.		
Severance, S.	118	ii	Gold mining on.....	219 A	xv
Severn mine, MARMORA TP. <i>See</i>			Shaftesbury Gold Mg. Co.		
Pearce gold-arsenic mine.			Capital and date of charter.....	12	vii
river, KEE.			Shakespeare Development Co.		
Limestone on.....	93	v	Capital and date of charter.....	30 A	xvi
river, SIMCOE CO.			gold mine, SHAKESPEARE TP.,		
Waterpower on	252	vii	ALG.		
	14 A	xv	Accident at.....	26-29 A	xiv
Seville, SPAIN.			Control of, vested in Dunn syn-		
Iron ores of.....	121	ii	dicate.....	67, 68 A	xvi
Seward, W. H.	202	i	Mining class at.....	45, 46 A	xv
Sewall and Smith.			Notes on, 1903.....	70, 71 A	xiii
Martha mica mine worked by...	104 A	xv	1904.....	57, 58 A	xiv
Sewer and Drain Pipe Co.			1905..	66, 67 A	xv
Output of, 1888	72	R C	1906.....	67, 68 A	xvi
pipes.			Operating, 1906.....	6 A	xvi
Clays for	86	R C	Photos of.....	64, 65 A	xiii
Companies engaged in making..	19 A	xvi		57 A	xiv
Factories for, notes.....	116, 117 B	xv	Gold Mg. Co.		
Sewing machines.			Capital and date of charter.....	37 A	xiii
Canadian imports, 1881-87...248,	253	R C	<i>See also</i> Shakespeare gold mine.		
Factories for, 1881.....	116	ii	tp., ALG.		
Sewmillee Iron Mining Co.			Gold in, discovery.....	5 A	xiii
Iron bounties paid to, 1901	26	xi	mining	58 A	xiv
Sexsmith iron mine, MADOC TP.,			<i>See also</i> Shakespeare		
HASTINGS CO.	133	R C	g. m.		
Sextant rapid, ABITIBI RIVER.			Shale.		
Cause of.....	147 A	xiii	Composition, distribution and		
Notes on; fossils at.....	187	viii	origin of.....	4-9 B	xv
Photo of.....	200, 201	viii	Thedford (Devonian)	7 B	xv
Rocks at	138 A	xiii	carbonaceous		
Devonian, photo.....	160, 161 A	xiii	Abitibi river, notes by J.M. Bell.	159 A	xiii
Waterpower at	193	viii	L. of the Woods.....	104	vi
Seybold, E.	236	ii	for pottery.		
Seymour, Alfred			Thedford and vicinity.....	155, 156	xii
Attempt by, to jump Silver Islet					
mine.....	143-145	vi			

	Page.	Vol.		Page.	Vol.
Shaler, Prof. Nathaniel Southgate			Shaw, George A.		
Notes by, on denudation of			Evidence by, before R. C. re:—		
Laurentian elevations	169	i	assays, unreliability of.	428	R C
Views of, <i>re</i> origin of apatite.	443	R C	copper, Denison tp.	105	R C
peat as fuel.	192	i	gold, Graham tp.	112	R C
production, cost.	202	ii	oil as furnace fuel.	395	R C
Shales, William J.	251	ii	want of cheap transport.	240	R C
Shallow lake, KEPPEL TP., GREY CO.			John	7	A xvi
Cement works on.	17	B xiii	Shawaskong river. <i>See</i> Madawaska river.		
<i>See also</i> Owen Sound Portland Cement Co.			Shawinigan Carbide Co.		
Marl on.	109	i	Capital and date of charter.	9	x
31, 32	xii		Shea, Maurice.	165	i
141	A xiv		Thomas	54, 57	xi
analysis	51	B xiii	35	A xvi	
notes by Gillespie.	156	A xiv	Thomas	28	xii
river, BLACK RIVER, ABITIBI RIVER.	187	xii	Shear, Herbert		
Shammis island, L. OF THE WOODS, R.R.D.			Evidence by, before R. C. <i>re</i>		
Felsite dike on.	56	vii	Badger silver mine.	199, 200	R C
"Shamrock" s.s.	59	viii	Manager, Badger mine.	199	R C
Shangemequagama (SANDY-BEACH) lake, E. OF RICE LAKE, ALG.	131	ix	226	i	
Shangoinah island, L. SUPERIOR.			Consolidated Mines Co.	19	xi
Application to mine.	143, 144	vi	West End silver mine.	96, 98	viii
Shannon, C. E.	143	x	258	xi	
Edward	57	xii	72	A xiii	
R. P.	143	x	President, Consolidated Mines Co.	257	xi
Shannonville, TYENDINAGA TP., HASTINGS CO.			Sheba Gold Mg. and Development Co.		
Altitude of.	222	x	Capital and date of charter.	9	viii
Rocks near.	27	B xiii	Shebandowan lake, TH. B. D.		
Shantz, J. Y. and Son.			Beauty of.	203	v
Experiments by, on peat for fuel.	191	i	Copper mining on.	80	v
Sharbot lake, OSO TP., FRONTENAC CO.			Explorations on and near, notes by Blue.	117-130	v
Charcoal burning at.	481	R C	Glacial striae on.	89	v
lake, FRONTENAC CO.			Gold on and near.	71	iv
Apatite mining on, evidence before R. C.	170, 178	R C	mining	108	x
Corundum near.	227	viii	238, 239	xi	
Feldspar prospecting near.	83	A xiv	notes by Plummer.	78	v
Quartz from, result of mill test on.	214	v	Railway needed to.	115, 241	R C
Tremolite near.	211	ix	Rocks on and near.	75	v
Sharon Iron Works, PA.	75	ii	petrography	95, 96	v
Sharp, Andrew			Route from, to Copper lake.	127	v
Views of, on royalties.	37	i	Round lake.	117, 119	v
Prof.	40, 41	A xiv	Surveyed by Coleman	3	v
W.			Shebandowan Mining Co.		
Brimstone quarrying by, Credit Forks.	111	ix	Capital and date of charter.	12	vii
Wentworth.	61	ix	river, SHEBANDOWAN LAKE, TH. B. D.		
William.	122	vii	Stratified deposits on.	146	xi
	59	ix	Shebeshkong (CHEPAKONGE) river, GEORGIAN BAY, L. HURON.		
	79	x	Copper ores on.	261	viii
Sharpe Lake Cobalt Silver Mg. Co.			168	ix	
Capital and date of charter.	30	A xvi	Shedden, SOUTHWOLD TP., ELGIN CO.		
Sharp-rock portage, MISSINAIBI RIVER, ALG.	195	viii	Brick-yard in, notes on.	62	B xv
Sharps landing, WABI BAY, L. TIMISKAMING.			tp., ALG.		
Rocks at, and near.	39, 43	B xiv	Copper mining north of.	62	A xiv
Keewatin.	30	B xiv	Pulp plant in. <i>See</i> Spanish Mills.		
Shaw, Col. A.	237	ii	Sheedy, James.	167, 175, 176, 185	iii
A. W.	143	x	Sheek (SHEIK) island, ST. LAWRENCE RIVER, ONT.		
Benjamin	56	A xiii	Limestone on, Chazy.	47	B xiii
			dolomitic.	40	B xiii
			Sheen, Hayes.	72	A xvi
			Sheep.		
			Mentioned as thriving at Moose Factory.	107	iv

	Page.	Vol.
Sheep-dip.		
Arsenic used in	111-114	xi
Sheet iron and steel.		
Statistics of. <i>See</i> Iron statistics.		
Sheffield, J. E. <i>See</i> Sheffield Scientific school.		
Sheffield, YORKSHIRE, ENGLAND.		
Steel working at	362	R C
for armour plates...	231	vii
Technical school at, notes...	246, 247	i
scientific school, YALE COLLEGE.		
Notes on, by Mathers.....	505	R C
Steel Works, PITTSBURG.		
Labour employed by, statistics..	370	R C
tp., ADDINGTON CO.		
Dolomite in.....	62	B xiii
analysis.....	28	B xiii
Iron ore from, at World's Fair..	82	ii
mining. <i>See</i> Tamworth.		
Marl in, analysis.....	28	B xiii
Molybdenite mining in.....	11	A xiii
Stibnite in.....	190	ii
	210	ix
Sheguindah, MANITOULIN ISLAND, L. HURON.		
Oil near.....	72	A xv
Utica formation at.....	87	i
bay, MANITOULIN ISLAND, L. HURON.		
Rocks on.....	77	B xiii
for glass making.....	94	i
quartzite.....	72	i
Sheldon, J. M. A.	107	A xiii
and Sheldon Co.		
Brick-drying machinery by, notes and photos.....	48, 49	B xv
Shell lake, ALG. <i>See</i> Esnagamilake.		
Shelter bay, RAINY LAKE, R.R.D.		
Granite on.....	50	iv
Shenango lake, S. OF NIVEN'S BASE LINE, ALG.	136	ix
valley, PA.		
Blast furnaces in.....	125	ii
Shenstone, Joseph N.		
Agreement between, and Govt. for corundum lands.....	249	viii
	25	x
Vice-president, Canada Corundum Co.....	20	ix
	131	x
Shepherd's purse.		
Night-hawk lake.....	123	A xiii
Sheppard, A. A.	143	x
	75	xi
Forrest		
Copper prospecting by, L. Superior	93	R C
Mention made by, of Silver islet, (1845).....	195	R C
Prospecting Woods location (1846).....	127, 128	vi
G. W.	67	xii
Thomas	190	iii
	123	iv
<i>See also</i> Beatrice nickel mine.		
gold mine, WANAPITEI LAKE, NIP.		
Arkose at, notes.....	138, 150	vii
Rocks of.....	140	vii

	Page.	Vol.
Sheppard nickel mine. <i>See</i> Beatrice mine.		
Shequamka river, MICHIGICOTEN RIVER, ALG.		
Description of.....	190, 191	vii
Length of.....	7	Bull. iii
Shera, C. H.	42	A xvi
W. L.	42	A xvi
Sherbrooke, QUE.	165	i
	212	vi
tp. South, LANARK CO.		
Andesine from, analysis.....	193	ix
Anorthosite in.....	226	viii
	198	xi
analysis.....	227	viii
Bytownite in.....	195	ix
Corundum in.....	204, 205	viii
compared with that of India.	232	viii
microphoto.....	216, 217	viii
Gold in.....	112	R C
	199	ix
	204	xi
Iron in.....	137	R C
	32, 33	ii
magnetite.....	202	ix
mining.....	50	ii
	274	v
<i>See also</i> Christie lake.		
Silver lake.		
Iron pyrites in.....	138	R C
Limestone in.....	46	ii
dolomite crystals	198	ix
Mica in.....	86	A xiv
<i>See also</i> Maberly.		
Scapolite rocks in.....	229	viii
Sheridan, James	126	R C
	65	ii
Sherk, Daniel	271	vi
L., Son & Co.	25	ix
Sherkston, HUMBERSTONE TP., WELAND CO.		
Corniferous formation at.....	119	B xiii
Natural gas near.....	136	i
supply of.....	44	xi
	21, 91	A xiv
	23	A xv
Sherman, W. M.	105	viii
Act.		
Effect of, on silver mining... ..	181	iii
Sherrett, R. C.	139, 181	R C
Sherrington, LAPRAIRIE CO., QUE.		
Peat at.....	198	ii
Sherwood, Daniel		
Iron smelting by, Lyndhurst (1813).....	319	R C
George		
Limestone quarry of, Brockville.	72, 73	B xiii
Lithographic stone quarry of, Marinora tp.....	138	iii
Sheshegwaning, BAYFIELD SOUND, MANITOULIN ISLAND.		
Niagara formation at.....	78	B xiii
Shetland, EUPHEMIA TP., LAMBTON CO.		
Oil at, boring for.....	25	v

	Page.	Vol.		Page.	Vol.
Shibaishkong island, L. HURON.			Shoal lake, SEINE RIVER, R.R.D.—Con.		
Character of shores near.....	67	i	Description of river from, to		
Limestone on.....	93 B	xiii	Steep-rock lake.....	68-71	v
Shibaonaning bay. See Killarney bay.			Glacial striae near.....	88	v
Shields, H. J.	94	xii	Gold mining on.....	5 Bull. i	
J. D.	85	viii		55-57, 227-230	iv
Shilton, John	64	ix		63-67	v
pyrites mine. See Northern Ontario pyrites mine.				80-83, 267	vi
Shimer, Prof. Porter W.	154, 155	xii		68-75	vii
	69, 70 B	xiii	<i>See also</i> Foley mine.		
Shiminis hill. See Chaminiss hill.			Govt. road in.....	34	vii
Shining-tree lake, ALG.-NIP. LINE.			Notes on, by Blue.....	155	v
Glacial striae on.....	81	vi	Rocks on and near:—		
	211	x	conglomerate.....	160, 165	viii
Gold on.....	174, 183	vi	notes.....	184, 186,	ix
Gravel beds near.....	210	x	and sketch.....	97, 98	v
Iron on and near.....	184	vi	granite.....	61, 89	iv
	15 A	xv	analysis.....	101	v
siderite.....	198, 205	x	petrography.....	96, 97	v
Jaspilite near, notes on..	178, 182-185	x	greywacké, notes.....	152	vii
Rocks on and near.....	173	vi	Sand hills near.....	146	xi
	198	x	Surveys on, ref. to.....	40	iv
Ship Holé, MOOSE ISLAND, JAMES BAY.			Veins of, assays.....	60	iv
Depth of water at.....	128	iv	character....	52, 59, 70, 71	iv
Sands, MOUTH OF MOOSE RIVER.	129	iv		115, 116	vi
Shipley, Henry F.	127, 143	x	Lake and Seine River Mg. Co.		
	75	xi	Capital and date of charter.....	13	vii
Shipman farm, ELIZABETHTOWN TP., LEEDS CO.			Lake narrows, SHOAL LAKE, L. OF THE WOODS, R.R.D.		
Iron pyrites in.....	153 A	xvi	Gold mining on. <i>See</i> Elphin-stone mine.		
Shippegan, GLOUCESTER CO., N.B.			Rocks on.....	107, 118	vi
Peat bog in.....	140, 144	iii	Shoap, Elias	144	xii
Shirley, F. S.	105 A	xv		54 B	xiii
L. H.	106	vii	Shoeburyness, KENT CO., ENGLAND.	157	iii
Shoal lake, L. OF THE WOODS DIST.			Shoes, Jim	136	viii
Glacial striae on.....	88	v	Shoo-fly lake, WANAPITEI RIVER, NIP.		
Gold mining on:			Alluvial gold near.....	156	x
1897.....	49-56, 120, 121	vii	Rocks near, notes.....	154, 155	x
1898.....	64-69	viii	Shook Anderson Machine Co.	118	ii
1899.....	52-61	ix	Shore island, L. OF THE WOODS, R.R.D.	181	v
1900.....	92, 93	x	lines.		
1901.....	251-254	xi	Timagami dist., W. of Timagami lake.....	177	x
1902.....	94	xii	Shores, E. Arthur		
1903.....	61 A	xiii	Gold mining by, Sturgeon Lake dist.....	38	x
1904.....	47 A	xiv	Manager for U.S. Gold Mg. Co..	256	xi
1905.....	59 A	xv		85	xii
notes by Coleman.....	49, 50	v	Short, A.		
	104-108	vi	Mica mining by, Ferguson tp... lake, COLEMAN TP., NIP.	279	v
<i>See also</i> Cameron mine.			Keewatin near.....	44 B	xiv
Cornucopia mine.			Minor ref. to.....	35 B	xiv
Mikado mine.			Shortiss, Thomas		
Rapids on, photo.....	46 A	xv	Evidence by, before R.C. <i>re</i> furnace in Snowdon tp.....	394	R C
Rocks on and near.....	70	iv	refs. to.....	326, 336	R C
anorthosite.....	153	vii	Iron mine of, Glamorgan tp....	62	ii
granite, notes by Coleman..	103	v	Letter to, <i>re</i> cost of iron making, Snowdon tp.....	395	R C
limestone, crystalline.....	101 B	xiii	Shortreed, Gideon	157 A	xiv
protogene area.....	155	vii	James	23	viii
lake, NEW KLONDIKE DIST., R.R.D.			Shotts, G. W.	49 A	xiii
Accident near, 1898.....	25	ix			
lake, NORTH EAST OF L. NIPIGON.	202	v			
lake, SEINE RIVER, R.R.D.					
Country between, and Mine Centre, notes by Blue....	135-154	v			

	Page.	Vol.		Page.	Vol.
Shovells, W.			Siderite.—Con.		
Foreman, Big Master gold mine.	245	xi	Michipicoten div.....	196, 197	x
	55, 68 A	xiii		162-175, 183	xi
	54 A	xiv	Helen mine.....	192, 193	x
	52 A	xv	Iron lake.....	313 A	xiv
Shrigley, Ennis.....	167, 176	iii	analyses.....	320 A	xiv
Shrike, northern			Nickel in.....	151 C	xiv
Abitibi dist.....	126 A	xiii	Notes by Goodwin.....	215	vi
Shrubs.			Opasatika river, analysis.....	152 A	xiii
Michipicoten div.....	296 A	xiv	Penokee-Goebic range.....	196, 197	x
See also the different varieties.			Petrography of series.....	204, 205	x
Shuler—?	270	v	Port Arthur dist.....	142	xi
Shuniah (OR DUNCAN) silver mine,			McIntyre tp.....	209	ix
McINTYRE TP.			Prospecting for, hints on.....	454	RC
Fault in.....	237	iv	Specific gravity of.....	202	vi
Galena in.....	198	ix	Siderite schist.		
Notes on, by Bell.....	34	RC	Pyrrhotite lake, analysis.....	305 A	xiv
McKellar.....	197, 198	RC	Siemens, Frederick.....	367	RC
Rocks in and near.....	56 B	xiv	Sir William		
Animikie.....	237	iv	Electrolytic smelting studied by.	156	ii
granite.....	67	RC	Minor ref. to.....	367, 507	RC
trap.....	32	RC	Notes by, on technical education.	419	RC
Section of.....	198	RC	Smelting process of.....	xxi	RC
Sphalerite in.....	209	ix	reduces price of steel.	366	RC
Shutt, F. T.			Views of, on peat fuel.....	208	ii
Notes by, on an arsenical weed-			Sigami creek, SIGAMI LAKE, ALG. .	291 A	xvi
killer.....	115	xi	lake, MICHIPICOTEN DIV., ALG.		
Shuttleworth, Prof. E. B.			Minor ref. to.....	285, 291 A	xiv
Analysis by, of natural gas, E.			Rocks in and near.....	302, 303 A	xiv
Tilbury tp.....	99 A	xvi	Sikojo=Berg, KOPPARBERG, SWEDEN.		
J. M.			Analysis of cancrinite-ægyrite-		
Experiments by, on peat....	200, 218	xii	syenite from.....	173	viii
<i>Sialia sialis.</i> See Bluebird.			Silas Griffin & Co.	228	i
Siamo slate.			Silesia, AUSTRIA.		
Michigan, U.S.....	151	ix	Corundum in.....	241	viii
Sibley, Alexander H.			Mispickel ores in.....	38	iv
Manager, Canada Lands Pur-			Moss-litter made in.....	212	ii
chase Syn.....	69, 74	iii	Nickel in, mode of occurrence..	146 C	xiv
Part owner, Huronian gold mine.	123	v	Silica. See Quartz.		
Silver Islet mine....	141	vi	Silicate brick.		
Photo of.....	128, 129	vi	Lime in manufacture of.....	3, 13 B	xiii
Purchase by, of Montreal Mg.			of copper.		
Co's lands.....	195	RC	Hints on, to prospectors.....	456	RC
	141, 144, 157	vi	of zinc. See Calamine.		
Henry S.			Silicon.		
Notes by, on copper at Mamainse			Proportion of, in earth's crust...	447	RC
pt.....	129, 130	ii	Silk.		
Trustee for A. H. Sibley and a			Molybdenum for colouring.....	46	xi
Detroit Co.....	241	ii	Silkeborg, DENMARK.		
	146	vi	Peat experiments at.....	211	ii
cove, NEAR SILVER ISLET VIL-			Sill, J. T.	54	vi
LAGE, TH.B.D.			Silliman, J. R.	34	iv
Rocks in vicinity of.....	134	vi	Sillimanite.		
tp., TH.B.D.			Hastings co.....	209	ix
Silver in. See Silver islet.			Sills-Eddy Mica Co.		
Sicily, ITALY.			Work by, 1901.....	292	xi
Sulphur from, for sulphuric acid.	179	RC	1902.....	131	xii
	199 A	xvi	Silures (TRIBE).		
lands in, sale of.....	297	RC	Silurian system named after	40	RC
Siderite.			Silurian.		
See also Meteorites.			Building-stone from.....	185	ii
Annaberg, Saxony.....	61 B	xiv	Character and extent of.....	40	RC
Animikie iron range.....	167 A	xv	Coal located in, by prospectors..	203	ii
Elizabethtown tp.....	209	ix	Divisions of.....	2	RC
Hardness of.....	202	vi		96 A	xiv
Lake Superior.....	194	ii	Huronian areas, notes by Bell ..	86	i
	209	ix	Notes on, by Blue.....	169, 170	i
Magnetic permeability of.....	324	xii	Ontario, thickness of.....	195	v
Marmora tp.....	209	ix			

	Page.	Vol.
Silurian.—Con.		
St. Joseph island, north of, contact with Huronian	38	iii
Silver, L. P.		
Report by, on Animikie Iron-Range.....	156-172 A	xv
Silver.		
Canada, production, 1870, 1880..	209	R C
1887.....	213	R C
1888.....	525	R C
Chalanches. France.....	63-65 B	xiv
Determination of.....	204	vi
Distribution of, notes by Blue..	176	i
Evidence before R. C.....	191-204	R C
Hardness of (native).....	202	vi
Industry of, 1904.....	4, 5 A	xiv
1905.....	8-11 A	xv
1906.....	11-13 A	xvi
Mining of, report for :		
1891.....	225-229	i
1892.....	239-241	ii
1893.....	181, 182	iii
1894.....	237-239	iv
1898.....	50, 96-98	viii
1899.....	84, 85, 149	ix
1900.....	108	x
1901.....	256-258	xi
1902.....	96, 97	xii
1903-1906. <i>See above</i> Industry.		
1905.....	73-87 A	xv
retarded by duties.....	217	R C
Ores of, notes by Goodwin..	267, 268	vi
Price of, 1905	15 B	xiv
fall in, effect of.....	11, 55	iii
	16	xii
Proportionate parts of.....	201	ix
Prospecting for, hints on....	452, 453	R C
Rocks bearing, notes by Bell....	28, 29, 33-36	R C
Royalties on, abandoned, 1868..	128	vi
Schneeberg, Saxony.....	74 B	xiv
production.....	89 B	xiv
Specific gravity of.....	202	vi
Statistics, 1870, 1880	210	R C
1881-1887	243	R C
1888.....	72	R C
1891.....	6	i
1892.....	10, 11	ii
1893.....	8, 10	iii
1897.....	Preface B and C	vii
1898.....	11, 21	viii
1899.....	ix	viii
	13, 18	ix
1900.....	7, 11, 12, 37	x
1901	8-14	xi
1902.....	12, 13, 16, 17	xii
1903.....	2, 5 A	xiii
1904.....	1, 3, 5 A	xiv
1905.....	1-3, 8, 10 A	xv
1906.....	3-13 A	xvi
Symbol for	201	ix
Test for	449	R C
United States, 1887.....	213	R C
1888.....	525	R C
Wright mine, L. Timiskaming.		
Que.	101 A	xiii
Barrie tp.....	209	ix
	203	xi

	Page.	Vol.
Silver.—Con.		
Myers cave, Barrie tp.....	220	v
Cobalt dist., discovery.....	7 A	xvi
notes.....	73-87 A	xv
by Gibson... ..	4, 5 A	xiv
	5-10 A	xv
production, 1904	16 B	xiv
1905	15 B	xiv
1906	10 A	xvi
reports by Miller.....	96-103 A	xiii
	9-54 B	xiv
	Pt. B	xvi
Echo lake, notes by Skewes	147	R C
Goulais river	203	viii
James tp., discovery.....	8, 45, 46 A	xvi
Lake of the Woods dist.....	64	R C
Lake Superior :		
Edward island.....	108	v
evidence before R.C. 61-63, 191-203		R C
Jackfish bay	444	R C
Mamainse pen.....	81	iii
Nipigon bay	267	v
Silver islet.....	209	ix
	54-56	xiv
complete history	125-158	vi
production	122	iv
	208	v
	4 A	xiv
Lutterworth tp. (local tradition). .	57 B	xiii
Nipissing lake	204	R C
Olden tp.....	209	ix
Port Arthur dist.....	83, 84	vii
	56-58 B	xiv
	61, 62 A	xvi
Beaver mine.....	208	R C
evidence before R.C. 61-63, 191-203		R C
minerals associated with	191	ii
notes by Ingall.....	51-58 B	xiv
Thunder bay, report by Cole-		
man	145-150	ix
Rawdon tp.....	205	xi
Sault Ste. Marie dist., evidence		
before R.C.....	59, 60	R C
Sudbury nickel ores, percentage.	203	R C
	151, 153 C	xiv
Timagami Lake dist.....	56	R C
Anvil lake.....	8, 45 A	xvi
Cross lake	101 A	xiii
Bar Mg. Co.		
Capital and date of charter	26 A	xv
Work by, Coleman tp.....	86 A	xv
Bell Mining Co.		
Capital and date of charter.....	30 A	xvi
Bluff silver mine, STRANGE		
TP., TH.B.D.		
Idle, 1892	240	ii
Inspector's report on, 1891.....	228	i
Centre Mg. Co.		
Capital and date of charter	12	vii
silver mine, SILVER MT.,		
TH.B.D.		
Idle, 1892.....	240	i
Prospecting in, 1891.....	229	i
Rich silver in.....	225	i
City Mg. Co.		
Capital and date of charter	30 A	xvi
Cliff Mg. Co.		
Capital and date of charter	30 A	xvi

	Page.	Vol.
Silver Creek, SAULT STE. MARIE DIST., ALG.		
Silver mining near	129	viii
See also Climax silver mine.		
silver mine, GILLIES TP., TH. B. D.		
Controlled by Algoma Mg. Co. . . .	96	xii
Evidence <i>re</i> , before R.C. 63, 199, 203		R C
Crown Mg. Co.		
Capital and date of charter	30 A	xvi
Falls silver mine, PORT ARTHUR DIST., TH. B. D.	202	R C
Five Mg. Co.		
Capital and date of charter	26 A	xv
Fox silver mine, NEAR WHITE-FISH LAKE, TH. B. D.	199	R C
glance. See Argentite.		
Glance silver mine, STRANGE TP., TH. B. D.		
Evidence <i>re</i> , before R.C.	202	R C
Gulch Mg. and Prospecting Co.		
Capital and date of charter	26 A	xv
harbour, THUNDER BAY, L. SUPERIOR.		
Rocks on, Animikie	237	iv
notes by Coleman.	149	ix
Harbour silver mine. See Beck s. m.		
Hill mine, PORT ARTHUR DIST., TH. B. D.	202,	R C
Mg. Co.		
Capital and date of charter	26 A	xv
Horse Shoe Cobalt Mg. Co.		
Capital and date of charter	29 A	xvi
islet, N. SHORE, L. SUPERIOR.		
Photos of	128, 129	vi
State of, 1896	125	vi
Islet, L. SUPERIOR.		
Animikite on.	193	ii
Domeykite on.	198	ix
Erythrite on.	198	ix
Graphite on	124	ix
Huntelite on.	200	ix
Macfarlanite on.	194	ii
201		ix
Marcasite on.	203	ix
Minor ref. to.	156 A	xv
Niccolite on.	205	ix
Photos of.	128, 129	vi
Rhodochrosite on.	208	ix
Rocks in, diabase, petrography.	104, 105	v
notes by Coleman.	85, 86	v
137		vi
Silver on, discovery	139	vi
5 A		xv
See also Silver Islet mine.		
Size of.	142	vi
Tetrahedrite in	210	ix
Veins of, true fissure.	239	iv
Visited by Coleman, 1895.	3	v
Islet Consolidated Mg. and Lands Co.		
Evidence <i>re</i> , before R.C. 98, 196, 197, 202		R C
Formation and work by.	73	iii
153-155		vi
Minor ref. to.	69	iii

	Page.	Vol.
Silver Islet mine, SILVER ISLET, L. SUPERIOR.		
Animikie formation in.	31	R C
85		v
Annabergite in	193	ix
Assets and liabilities of, 1873.	149	vi
Cerargyrite in.	196	ix
Chalcopyrite in	86	v
Cobalt bloom in	214	vi
103 A		xiii
Crib work protecting, effect of waves on	147	viii
Diabase breccia on.	86	v
Galena on	86	v
Macfarlanite on	85	v
191		ii
Marcasite on.	86	v
Minor ref. to	101 A	xiii
Natural gas in	35, 153	R C
Plant of, photos.	144, 145	vi
Sale of, by the Montreal Co.	95	R C
Section of	196	R C
Silver in, animikite.	191	ii
193		ix
antimonial	194	ix
argentite	191	ii
86		v
194		ix
discovery	34	R C
139		vi
5 A		xv
evidence before R.C.		
62, 63, 67, 94, 195, 197		R C
forms of.	33	R C
huntelite	191	ii
mining, complete history.	125-127	vi
notes by Blue.	176, 177	i
Ingall.		
54-56 B		xiv
native	191	ii
86		v
207		vi
origin	35	R C
production.	196	R C
122		iv
85, 208		v
125		vi
5 A		xiii
4 A		xiv
1870-75.	142, 152	vi
State of, 1876	152	vi
Values in, poorer in depth.	6 B	xiv
Veins in, course of.	33, 192, 198, 203	R C
Zinc-blende in	86	v
Islet Mining Co.		
Financial difficulties of.	152, 153	vi
Formation of	142	vi
King Gold and Copper Co.		
Capital and date of charter.	24 A	xiii
lake, FRONTENAC AND LANARK COS.		
Apatite mining on	240	i
suspended	251	ii
Iron ore on, analysis and notes. . . .	48	ii
titaniferous.	51	ii
Limestone on.	46	ii

	Page.	Vol.		Page.	Vol.
Silver lake, McTAVISH TP., TH. B. D.			Silverine (ARGENTAN).		
Iron-bearing rocks near	259	A xiv	Composition of	159, 160	ii
ore from, at World's Fair..	80	ii	Nickel for making	155	ii
Keweenaw west of	169	A xv	Silverland Development Co.		
Galena in	198	ix	Capital and date of charter	30	A xvi
	170	A xv	Silvester, A.	131	ix
Laccolithic sills on	171	A xv	Simard, A.	98	A xvi
Sphalerite on	209	ix	Simcoe, Woodhouse TP., SIMCOE CO.		
lake, NEAR COLBORNE, NORTH-UMBERLAND CO.			Brick-yard at, notes	85	B xv
Iroquois beach at	231, 235	A xiii	co.		
lake, NEAR SHEBANDOWAN LAKE, TH. B. D.			Brick industry in	99, 100	B xv
Notes on, by Blue	118	v	Limestone in, notes by Miller. 107-109		B xiii
Rice on	121	v	Peat in	198, 209	ii
Route from, to Huronian g.m. .	125	v	island, L. ONTARIO.		
Lake Mining Co.			Cambro-Silurian on	44	B xiii
Capital and date of charter	12	vii	lake.		
Leaf Mining Co.			Level of, affecting Holland River		
Capital and date of charter	30	A xvi	peat-bog	190	i
Leaf silver mine, COLEMAN TP., NIP.			Trenton formation on	41	R C
Notes on, 1905	84	A xv		89, 90	B xiii
Ledge, Ltd.			Peat Fuel Co.		
Capital and date of charter	29	A xvi	Work by, at Barrie, suggested... 23		ix
Lion Mg. and Development Co.			Simon hill, NEAR MICHIPICOTEN HARBOUR, ALG.		
Capital and date of charter	30	A xvi	Iron formation in	204	A xv
mt., LYBSTER TP., TH. B. D.			Simmons—?	174	ii
Animikie of, carrying silver.... 225		i	N.	118	ix
Evidence <i>re</i> , before R.C.... 197, 198		R C		144	x
Fault in	238	iv	Simpson—?	49	A xvi
Fluorspar in	198	R C	Alec.	60	ix
Silver in, discovery	35	R C	Alexander		
	122	iv	Director, Marmora Foundry Co. 21		ii
mining, notes... 96, 97, 275		viii	C. M.	144	x
<i>See also</i> next refs.			Daniel	98	x
Veins in, course of	62, 193, 203	R C		92	xii
Mountain group of mines, TH. B. D.			Lady Frances		
Veins of, character	240	R C	Fort Frances named after	40	iv
Mountain Mg. Co.			G. A.	106	vii
Notes on, by Tretheway	201	R C	Sir George (H.B.C.)		
<i>See also</i> East Silver Mt. mine.			Member of Montreal Mg. Co.... 127		vi
Mountain silver mine, LYBSTER TP., TH. B. D.			Minor ref. to	173	ii
Silver in, argentite	194	ix		40	iv
native	207	vi	Notes by, on agricultural land,		
Minor ref. to	5	A xv	R.R.D.	207	v
Railway to, needed	240	R C	John Bell		
plating.			Evidence by, <i>re</i> royalties in Gt		
Works for, Thorold	131	i	Britain	36	i
Queen silver mine, COBALT, NIP.			N.	118	ix
<i>See also</i> Cobalt Silver Queen, Ltd.				144	x
Notes on, and photo	78	A xv		75	xi
Producing, 1905	7	A xv	Dr. B. M.	32, 33	vii
1906	8	A xvi	T. F.		
"Silver Spray" (TUG), photo. 144, 145		vi	Peat dryer of, notes and dia-		
Silver Star Mining Co.			grams	217, 218	xii
Capital and date of charter	80	A xvi	island, L. SUPERIOR.		
sulphide. <i>See</i> Argentite.			Agates on	192	ix
Wonder Mg. Co.			Copper in	36	R C
Capital and date of charter	29	A xvi	Rocks of	37, 67	R C
Silverado Cobalt Mines, Ltd.			trap	15	v
Capital and date of charter	30	A xvi	mine, GRAHAM TP., ALG.		
Silverhorn Mining Co.			Assay of quartz from	92	
Capital and date of charter	29	A xvi	Simms, W. J.	22	ix
			Sinclair, Duncan		
			Evidence by, before R.C. <i>re</i> :—		
			methods of drilling	166	R C
			oil, Petrolea	55	R C
			Ref. to explorations of, 1867 176		vi
			J. M.	227	i

	Page.	Vol.
Sinclair mt., W. OF NIGHT-HAWK LAKE.		
Altitude of	177	vi
Beaver dam near.....	178	vi
Composition of	182	vi
Gold near	183	vi
Minor ref. to	130	ix
Photo of	176, 177	vi
Timber near	176	vi
Singed-Marten creek, ABITIBI RIVER.....	183	viii
Singer, Nimick & Co.		
Iron output of, 1893.....	118	ii
Labour employed by, statistics..	370	R C
Sewing Machine Co.		
Output of, 1893	119	ii
Sinn, C. F.....	106	vii
Sioux Indians.		
Northern limit reached by.....	58	v
Lookout, NEAR PELICAN LAKE, R.R.D.		
Battle fought at.....	168	vii
Minor ref. to.....	59	v
Quartz from near, assay	180	vii
Veins at, mineralized.....	178	vii
narrows, REGINA BAY, LAKE OF THE WOODS, R.R.D.		
Minor ref. to.....	91, 103	vi
Rocks on.....	100	vi
Sirdar gold mine, SIRDAR PT., L. OF THE WOODS, R.R. D.		
Depth of, 1899.....	35	ix
Notes in, 1899	56, 57	ix
1900.....	78	x
Photo of	48, 49	ix
Sirdar Gold Mining Co.		
Capital and date of charter.....	10	ix
See also Sirdar gold mine.		
pt., L. OF THE WOODS, R.R.D.		
Gold mining at.....	57	ix
See also Sirdar gold mine.		
"Sisquette" (SLOOP).....	171	ii
<i>Sisyrinchium augustifolium.</i>		
Abitibi dist.....	241	A xiv
Mattagami valley.....	150	A xv
<i>Sium cicutaefolium.</i>		
Mattagami valley.....	151	A xv
Sivamalai hill, COIMBATORE DIST., BURMA.		
Corundum in.....	231	viii
Six-and-Six (No. 3) copper-nickel mine, BLEZARD TP., NIP.		
Notes on, 1899.....	98	ix
1900.....	123	x
Sixth Meridian, R. R. D.		
Geology of.....	169-171	vii
Sjostedt, Ernst A.		
Acknowledgments to.....	66	xi
13		B xiii
Assays of nickel ore sampled by.	199	A xiii
Licence to.....	118	ix
144		x
75		xi
67		xii
Manager, pulp mills, Sault Ste. Marie	154	ix
Notes by, on Strathecona nickel mine	198	A xiii
67		C xiv

Skates.

Imports of, to Canada, 1881-87..	253	R C
----------------------------------	-----	-----

Skewes, John S.

Evidence by, before R. C. re:—		
silver mining, Echo lake.....	147	R C
tariffs	231	R C

Skews, William.....	272	v
----------------------------	-----	---

Skoradite.

Middlesburg dist., Transvaal....	70	B xiv
----------------------------------	----	-------

Skunk.

Abitibi river, south of.....	189	xii
------------------------------	-----	-----

island, LAKE OF THE WOODS.

Gold mining on. See Nonesuch gold mine.		
---	--	--

islands, MISSINAIBI RIVER, ALG.

Minor refs. to.....	195	viii
136		A xiii

Trees and forest fires on....	176, 177	A xiii
-------------------------------	----------	--------

lake, MICHIPICOTEN DIV..	285, 292	A xiv
---------------------------------	----------	-------

lake, NIVEN'S BASE LINE, ALG.		
--------------------------------------	--	--

Description of.....	138	ix
---------------------	-----	----

Skutterud, NORWAY.

Cobalt ores of	67	B xiv
----------------------	----	-------

Skutterudite.

Norway.....	67	B xiv
-------------	----	-------

Skyunner bay, WANAPITEI LAKE, NIP.....

256		vii
-----	--	-----

Slag cement.

Competing with Portland cement.	vii	B xiii
---------------------------------	-----	--------

Slagg, John.....	491	R C
-------------------------	-----	-----

Slaght, Aaron

Reports by, as Inspector of Mines:—		
-------------------------------------	--	--

1891.....	222-247	i
-----------	---------	---

1892.....	231-257	ii
-----------	---------	----

1893.....	181-199	iii
-----------	---------	-----

1894.....	225-253	iv
-----------	---------	----

1895.....	261-284	v
-----------	---------	---

1896.....	247-281	vi
-----------	---------	----

1897.....	85-100	vii
-----------	--------	-----

Reports by, on accidents at:—

Copper Cliff mine.....	207-210	iv
------------------------	---------	----

Ophir mine.....	202-206	iv
-----------------	---------	----

Slaking of lime.**See also Lime.**

Notes on, by Miller.....	11	B xiii
--------------------------	----	--------

Slate.

As a building stone.....	134	iii
--------------------------	-----	-----

Canada, production, 1886-87....	243	R C
---------------------------------	-----	-----

Definition of.....	236	vi
--------------------	-----	----

For roofing, Madoc tp.....	87	R C
----------------------------	----	-----

204		xi
-----	--	----

Matabitchuan river. 56		R C
------------------------	--	-----

production,		
-------------	--	--

1870-80-87. 210		R C
-----------------	--	-----

New Rockland, Que. 87		R C
-----------------------	--	-----

Timagami lake.... 56		R C
----------------------	--	-----

93, 168		i
---------	--	---

Meaning of name.....	72	i
----------------------	----	---

Paris, Ont., analysis.....	147	xii
----------------------------	-----	-----

34		B xiii
----	--	--------

Sudbury dist., bedding of, photo.

272, 273		xii
----------	--	-----

notes by Coleman.		
-------------------	--	--

93, 133		C xiv
---------	--	-------

Whitefish lake, near, Th. B. d., analysis.....	144	A xvi
--	-----	-------

	Page.	Vol.		Page.	Vol.
Slate breccia.			Smaltite.—Con.		
Cobalt dist., notes by Miller....	102	A xiii	Grant co., Oregon.....	71	B xiv
carbonaceous.			Gunnison co., Col., analysis....	71	B xiv
Rainy River dist., notes.....	152	vii	Hardness of.....	202	vi
conglomerate.			Hudson tp.....	51	B xiv
Definition of.....	74	i	Ingram tp., Nip.....	29	B xiv
paint.			Joachimsthal, Bohemia.....	61	B xiv
Composition of.....	463	R C	McKim tp.....	194	ii
United States, production, 1888.	525	R C		214	vi
islands, L. SUPERIOR.				209	ix
Geological notes on, by Coleman.				59	B xiv
	137, 138	xi	Madoc tp... ..	214	vi
Iron ore on.....	23	R C		209	ix
	314	xii	Middleburg dist., Transvaal.....	70	B xiv
hematite.....	65	ii	Montreal river.....	53	A xvi
Prospecting on.....	95	viii	Anvil lake.....	8	A xvi
	87, 88	x	Trout lake, S. of Bay lake.	29	B xiv
rapid, MISSISSAGI RIVER, ALG.	164	xii	Pihuamo, Mexico.....	71	B xiv
river, KAMINISTIKWIA RIVER,			Saxony.....	61, 75	B xiv
TH. B. D.			Specific gravity of.....	202	vi
Kalinite on.....	200	ix		20	B xiv
Prehnite on.....	207	ix	Whiskey lake, Alg.....	69	A xv
Slater, J.			Smart, J. S.	117	i
Quarrying by, at St. Marys.....	151	xii	T. R.	118	ix
Slawson, —?				144	x
Tin prospecting by, Michipicoten				67	xii
div.....	138	viii		49	A xiii
Sleeman, G.	105	viii	Smeaton, John		
	118	ix	Cylindrical bellows of.....	xvi, 358	R C
Slett, Ole.	32, 33	vii	Eddystone lighthouse built by..	107	i
Slickensides.			Roman cement made by, in Eng-		
Origin of.....	252	v	land.....	118	A xiv
Sligo Iron Mill.			W. F.	56	A xiii
Labour employed at, statistics.			Smeeton quarry, NEAR INGLEWOOD,		
Slimes.			PEEL CO.		
Waste of gold in.....	452	R C	Notes on, 1899.....	110	ix
Sliney, J.	106	vii	Smelters.		
Sliter, Hiel.	13	ii	See also Blast furnaces and Smelt-		
Sloan, J.	98	A xvi	ing.		
W.	98	A xvi	Building and running of, in		
pyrites mine, ELIZABETHTOWN			Ont.		
TP., LEEDS CO.			evidence before R.C..	390-402	R C
Notes on, by Fraleck.....	153	A xvi	Canada, paper on	13-30	ii
Sloat, F. J. J.	106	vii	Detroit (iron).....	xv	R C
Slocan-Kils Mg. Co.			cost of production.....	399	R C
Capital and date of charter.....	10	ix	Location of, paper by Birkinbine.		
Sly Bros.				122-128	ii
Apatite on land of, Frontenac co.	439	R C	Moisie, Que. (iron).....	325	xii
Small, William			Noumea (nickel).....	151	ii
Manager, Bullion No. 2 mine....	57	ix	Operations of, in Ont., 1906.....	17	A xvi
Gold Panner mine....	75	x	Pottsville, Pa.....	388	R C
Sturgeon Lake Mg. Co.	149	xi	Radnor Forges, Que.....	191	ii
Smaland prov., SWEDEN.			St. Ignace, Mich., ores used in..	99	ii
Peat in.....	219	ii	St. Louis, U. S., cost of produc-		
Smaltine.			tion.....	392	R C
Carrying arsenic.....	101	xi	Schneeberg, Saxony (Cobalt)...	75	B xiv
Smaltite.			Swansea	403	R C
Bimbowrie, S. Australia.....	70	B xiv			
Casey tp., Nip.....	48	A xv			
Chili.....	72	B xiv	Bancroft, proposed.....	234	vii
Cobalt dist.....	xi, 99	A xiii	Bannockburn (lead).....	91	A xv
	12, 13	B xiv		18	A xvi
Bucke tp.....	28	B xiv	Bruce mines, notes.....	378, 402-404	R C
Coleman tp.....	145	C xiv	Collingwood	24	xii
	23, 48	A xv	photos.....	160, 161	xii
	9	A xvi	projected	17	ix
with tetrahedrite.....	100	A xiii		25	x
Composition of.....	98	A xiii	See also Cramp Steel		
			Co.		

	Page.	Vol.
Smelters.—Con.		
Deseronto.....	22	xii
	10	A xiii
	17	A xvi
notes, 1898.....	6	viii
1899.....	15, 102	ix
1900.....	27	x
oper ting.....	25	xi
photos.....	Frontis. Vol.	viii
	32, 33	ix
proposed.....	234	vii
quality of ore used at.....	24	xi
Eldorado (copper).....	89	A xv
photo.....	77	A xvi
Georgian bay, proposed.....	261	viii
Hamilton.....	329	R C
	10	A xiii
	17	A xvi
completed.....	4	v
description.....	41-46	v
foundation of.....	27	x
extension of.....	22	xii
inauguration of, ref to..	19	xii
in course of erection..	28, 29	iv
notes, 1896.....	38	vi
1897.....	24, 25, 97	vii
1898.....	6	viii
1899.....	14, 101	ix
photos.....	32, 33	v
probable effect on iron		
mining.....	7	v
secured for Cobalt ores.	73	B xiv
working, 1901.....	25	xi
Kingston, iron, projected.....	32	iv
	17	ix
lead.....	175	i
	191	ii
	234	vii
	11	A xiii
Madoc, lead, proposed.....	288	viii
Marmora.....	191	ii
	204	vi
cost.....	321	R C
history.....	14-21	ii
notes by Hardy....	321-323	R C
statements before R. C.	389	R C
Midland.....	10	A xiii
	16	A xv
	17	A xvi
blown in.....	25	xii
description.....	102	ix
	27-30	x
extension.....	22	xii
notes, 1900.....	16, 17	ix
operating, 1901.....	25	xi
photos.....	16	ix
	16, 160, 161	x
suggested.....	6	viii
Normandale (1813).....	142	xi
Port Arthur.....	47	A xv
description.....	60, 61	A xv
erection.....	60	A xvi
proposed.....	13	A xiv
Sudbury dist.		
See also Canadian Copper Co.		
Oxford Copper Co.		

Smelters.—Con.

Sudbury dist.—Con.

Copper Cliff, capacity.	435	R C
for Cobalt ores.	64, 65	A xv
description..	378, 379	R C
notes by Brown.	65	A xvi
photos.	39, 90, 91, 108	C xiv
Victoria mine, photo..	24	C xiv
Wellington mine, salt		
process.....	378	R C

Smelting.

Copper-nickel ores, notes by		
Levat.	154, 155	ii
paper on.	234-236	i
	216-223	ix
Iron ores, notes by J. Bawden.	474-486	R C
Lime used in.....	3, 13, 14	B xiii
Ores of economic minerals in Ont.		
evidence before R. C.	388-406	R C
paper by Hardy.....	319-388	R C
Salt process for (copper).....	403	R C

Smethwick, NEAR BIRMINGHAM, ENG.

Nickel refinery at, description		
and diagram.....	108-114	viii

Smilacina racemosa.

Mattagami valley.....	150	A xv
" stellata.		
Abitibi Lake district.....	241	A xiv
" trifolia.		
Abitibi Lake dist.....	241	A xiv
Mattagami valley.....	150	A xv

Smiles, Thomas.....**Smirlville, MOUNTAIN TP., DUNDAS**

CO.

Calciforous formation near.....	47	B xiii
---------------------------------	----	--------

Smith, A.....

A. Bromley.....	52, 53	A xvi
-----------------	--------	-------

Albert.....	88	A xv
-------------	----	------

Captain Boyd**Apatite and mica claims of, N.**

Burgess tp..	53, 167, 172, 177, 439	R C
gypsum in.....	199	ix
magnetite in.....	201	ix
notes.....	88, 89	A xvi
Claim of, Eagle lake.....	228	A viii
Evidence by, before R. C..	170, 172	R C
Charles.....	37	vii

Charles E.

Mining pyrites in Madoc tp.....	95	A xiii
---------------------------------	----	--------

D. H.....	92	iii
-----------	----	-----

Dryden

Manager, Laurentian gold mine..	52	A xiv
---------------------------------	----	-------

	51	A xv
--	----	------

Moose Lake " ..	97	x
-----------------	----	---

Twentieth Century gold		
mine.....	249	xi

	52	A xiii
--	----	--------

	42, 51	A xiv
--	--------	-------

Volcanic Reef gold mine.	51	A xv
--------------------------	----	------

Edward

Mica mining by, N. Burgess tp..	105	A xv
---------------------------------	-----	------

G. O.....	144	x
-----------	-----	---

George (FRONTENAC CO.)

Boring for oil on land of.....	283	v
--------------------------------	-----	---

Feldspar mining by, Bedford tp..	26	x
----------------------------------	----	---

George (HASTINGS CO.)	42	A xv
-----------------------------	----	------

George Gregory

Notes by, on lignite as a fuel....	28	A xiii
------------------------------------	----	--------

	Page.	Vol.
Smith, George T.	38	A xv
H. B.	36, 37	A xvi
H. L.	110	ix
Harrison	100	x
Method of eliminating moisture in natural gas.....	106	ix
Henry	39	A xv
Isaiah <i>See</i> Smith and Lacey mica mine.		
J.	94	A xvi
J. Burley		
Contractor, La Mascotte gold mine.....	45	vii
Gold mining by, L. of the Woods.	100	vi
Manager, Burley gold mine.....	42	ix
	60	A xiii
Yum Yum gold mine.	49, 120	vii
Notes by, on Yum Yum gold mine.	50	vii
J. L.		
Quoted <i>re</i> amazon-stone, Color- ado.....	236, 238	vii
J. Lionel		
Ref. to report by on Canadian salt.....	184	R C
J. Scott	73	viii
James E.	95	viii
John	204	iv
John C.	235	ii
John H.	52, 53	xii
	42	A xiii
Justin E.	236	xi
L. P.	127	xi
M.		
Reference to paper by, on mag- netic separation of ores.....	340	xii
N. G. Maitland	48	ix
Oscar R.		
In charge of Government drill, 1900.....	6, 54	x
1901.....	60	xi
Manager, Sirdar gold mine.....	56	ix
Patrick	78	
Oil on farm of, Mersea tp.....	90	A xiv
Peter	23	viii
R. H.		
Foreman, Lacey mica mine.....	287	xi
Mining by, Michipicoten div....	106	vii
	118	ix
	144	x
	75	xi
S. N.	73	A xiii
Swire	491	R C
T. E.	58, 67	viii
	280	xi
T. Guildford	17	ix
	30	x
T. J.		
Manager, Baby mica mine.....	279	v
Martha ".....	133	xi
	129	xii
	105	A xv
Munslow ".....	290	A xi
Pike Lake ".....	277	v
Terry		
Mica mining by, N. Burgess tp...	89	A xvi
W. A.	22	A xiii

Smith, W. H. Chatterton

	Page.	Vol.
Jasper reported by, Hunter island.	200	x
Ref. to surveys by, R. R.d..	151, 153	vii
Atikokan river.....	142	v
Hunter island.....	47	iv
	128	xi
W. N.	270	A xiv
	156	A xv
Report by, 1905, on Loon Lake (Alg.) iron-bearing dist...	254-260	xiv
Extract from.....	158	A xv
William		
Foreman, Garland gypsum mine.	243	i
	253	ii
Gypsum mining by, near Cale- donia.....	23	x
	38	xii
and Colfax.		
Brick-yard of, Drew.....	105	B xv
and Crang.		
Brick making by, Carlton West..	107	B xv
and Lacy mica mine, LOUGH- BOROUGH TP., FRONTENAC CO.		
Datolite in.....	197	ix
Description of, and sections.	148, 149	R C
Evidence <i>re</i> , before R. C...	149, 171	R C
Notes on, 1891.....	244	i
1892.....	249	ii
1893.....	192	iii
1900.....	134	x
1901.....	287	xi
1902.....	12, 126, 127	xii
1903.....	12, 91	A xiii
1904.....	84, 85	A xiv
1905.....	102, 103	A xv
1906 and photo.....	86, 87	A xvi
Operating, 1906.....	23	A xvi
Plant of, photo.....	84	A xv
Purchased by Webster and Co...	195	iii
and Nelson.		
Dynamite manufactured by.....	152	A xvi
bay, MANITOULIN ISLAND, ALG.		
Rocks in vicinity of.....	86	i
cape, MANITOULIN ISLAND, ALG.	87	i
co., TEXAS.		
Iron ore in.....	101	ii
Farm, DUNWICH TP., ELGIN CO.		
Oil production from, 1898.....	16	viii
mica mine, N. BURGESS TP. <i>See</i> Smith, Captain Boyd		
tp., PETERBOROUGH CO.		
Limestone in, analysis.....	97, 98	B xiii
Falls, N. ELMSLEY TP., LANARK CO.		
Artesian well in.....	59	i
Brick-yard at, notes.....	76	B xv
Calcareous formation in.....	70	B xiii
Fossils from.....	224	x
Notes by Coleman.....	216, 217	x
Iron works at.....	329	R C
Kame-like deposits near.....	241	A xiii
Mica trimming works at.....	105	A xv
Sulphuric acid works at....	193, 200	A xvi
Superphosphate works at...	169, 179	R C
	252	ii
	33	vi

	Page.	Vol.
Smithsonian Institution.		
Work by, <i>re</i> fish, Seine River dist.	63	v
Smithsonite (CARBONATE OF ZINC).		
Baleo, Cal.	71	B xiv
Hints on, to prospectors.	460	R C
Notes on, by Goodwin.	210	vi
Smoking falls, MATTAGAMI RIVER, ALG.		
Water-power of.	145	A xiii
Smoky City Boiler Works.	118	ii
Smoothrock (CLEAR) lake, S. of MANITOU LAKE, R.R.d.		
Granite on.	50	iv
portage, MATTAGAMI RIVER, ALG.	123	A x
Smudges.		
Cause of forest fires.	311	R C
Smyth, Prof. C. H.		
Ref. to surveys by, Steep-rock lake.	158	vii
	306	xii
Smyth, Prof. Henry Lloyd		
Magnetic surveying for iron recommended by.	279	A xiv
Notes by, on iron ore, Atikokan range.	75, 76	ii
rocks of Steep-rock lake.	71	v
Ref. to surveys by, R. R. d. 151, 152		vii
	129, 130, 133	xi
Smyth, Prof. Warrington	493	R C
cape, MANITOULIN ISLAND, L. HURON.	96	iii
Bituminous shales at.	72	A xv
Rocks at.	77	B xiii
Smythe, Dr. E. H.		
Mica mining by, Bedford tp.	133	x
Snake bay, WHITEFISH BAY, L. OF THE WOODS, R. R. D.		
Floating island in.	109	vi
Notes on, by Coleman.	102	vi
Rocks on.	113	vii
creek, OTTAWA RIVER, QUE.		
Cyanite from.	237	vii
lake, NEAR TIMAGAMI LAKE, NIP.		
Iron ore near.	201	x
Jaspilite on.	167, 168, 173	x
photo.	176, 177	x
River Mg. Co.		
Capital and date of charter.	9	viii
Snarum, NORWAY.		
Cobalt ores of.	67	B xiv
Snell, Rendol.	90	xi
W. M.	118	ix
Snelus, George J.		
Notes by, on Saniter process. .	94, 95	ii
Snider, E. B. W.	118	ix
I. N.	100	x
Nicholas	54, 55	iii
tp., SUDBURY DIST., ALG.		
Copper in.	24	R C
associated with diorite.	434	R C
evidence before R. C.	103, 105, 106, 425	R C
Gold and silver in.	112	R C
25 M.I.		

	Page.	Vol.
Snider tp.—Con.		
Nickel in.	105	R C
mining.	72	A xiv
<i>See also</i> Creighton m.		
North Star m.		
Tam O'Shanter m.		
Rocks in.	242	xii
diorite.	434	R C
granite.	55	C xiv
greenstone.	50	C xiv
nickel-bearing.	40	C xiv
norite.	242	xii
syenite.	433	R C
Snooks pyrites mine, LOUGHBOROUGH TP., FRONTENAC CO.		
Notes on, by Fraleck.	163	A xvi
Snow, Moses		
Evidence by, <i>re</i> marble, Garden River.	83, 235	R C
-bird, black (<i>Junco hiemalis</i>).		
Abitibi dist.	243	A xiv
road, ADDINGTON CO., ONT.		
Rocks on.	224, 225	viii
Snowdon iron mine, SNOWDON TP., HALIBURTON CO.		
Iron from, cost of production.		
	395, 396	R C
	112	ii
Notes on, by Ledyard.	114, 115	ii
Iron Mg. and Blast Furnace Co.		
Capital and date of charter.	12	vii
tp., HALIBURTON CO.		
Grenville series in.	56	B xiii
Iron in, analysis.	60, 80, 81	ii
	202	ix
exhibited at Chicago. 79, 81		ii
Iron ore, limonite.	191	ii
mining.	234	R C
evidence before		
R. C.	130-132	R C
	60, 61	ii
smelter.	334, 336	R C
<i>See also</i> Kinmount.		
Marble in.	83	R C
	57	B xiii
Uraconite in.	194	ii
	233	vii
	211	ix
Snyder, F. T.		
Manager, Keewatin Power Co. .	53	vi
Reduction		
Works. .	60, 62	vii
	99	viii
Soap.		
Lime used in.	3, 13	B xiii
Soapstone. <i>See</i> Steatite.		
Sobatchia mts., NOVGOROD PROV., RUSSIA.	213	vii
Societe d'Exploitation des Mines de Nickel.		
Nickel mining by, New Caledonia.	178	iv
Le Nickel.		
Capital of.	175	C xiv

	Page.	Vol.		Page.	Vol.
Societe Le Nickel.—Con.			Solenhofen, BAVARIA.		
Nickel alloy of, analysis.....	184	iv	Lithographic stone at	6 B	xiii
mining by, New Caledonia.....	178, 179, 22	iv	analysis	182	ii
Not included in International Nickel Co.....	22	xi	specific gravity	184	ii
Rothschilds associated with.....	182	iv	Solid Comfort, HUMBERSTONE TP., WELLAND CO.		
Miniere Caledonienne.			Gas at, from Port Colborne.....	128	i
Inclusion of, in International Nickel Co.....	22	xi	Solidago.		
.....	140, 172 C	xiv	Moose River basin	177 A	xiii
Socrates corundum mine, N. CAROLINA.....	225	vii	" <i>rugosa</i>		
Soda.			Abitibi Lake dist.....	241 A	xiv
<i>See also</i> Alkali works.			" <i>uliginosa</i>		
Composition of	448	R C	Abitibi Lake dist.....	241 A	xiv
Lime used for making.....	3, 13, 14 B	xiii	Solignac, G.	499	R C
Sodalite.			Solliday and Grandon.		
Associated with corundum, Eastern Ont.....	211	vii	Mica mining by, Loughboro tp.	103 A	xv
.....	218	viii	Solomon, King		
.....	209	ix	Brass casting for temple of.....	381	R C
Bancroft (near), mining.....	106 A	xv	Solvbergites.		
.....	26 A	xvi	Essex co., Mass.	190	ix
Composition of	106 A	xv	Solway Process Co.		
Dungannon tp.....	188	ii	Work by, notes on.....	42 B	xiii
.....	209	ix	Sombra Oil and Gas Co.		
Notes on, by Goodwin.....	225	vi	Capital and date of charter.....	29 A	xvi
Production of, 1906	4, 6 A	xvi	tp., LAMBTON CO.		
Proportion of, in earth's crust..	447	R C	Boring in, for coal.....	45 A	xiii
Uses of.....	106 A	xv	Corniferous formation in. <i>See</i>		
Sodium arsenate.			Port Lambton.....	47	R C
Composition and uses of.....	113	xi	Somerville tp., VICTORIA CO.		
<i>chloride.</i> <i>See</i> Salt.			Black River formation in. <i>See</i>		
Sodus, U. S.			Burnt River.		
Iroquois beach at	233 A	xiii	Galena in.....	198	ix
Soho Iron and Steel Co.			Graphite in. <i>See</i> Kinmount.		
Labour employed by, statistics... 370		R C	Trenton formation in	112 B	xiii
Pipe Mill, PITTSBURG.			analysis	113, 114 B	xiii
Labour employed at, statistics... 370		R C	Somme river, FRANCE.		
works, SHEFFIELD, ENG. <i>See</i>			Peat in valley of, duration of formation	183	i
Jessop & Sons, William			Sommers, Capt.....	38 A	xiv
Soil.			Soo, The <i>See</i> Sault Ste. Marie.		
<i>See also</i> Agricultural land.			Cobalt Mining Co.		
Abitibi dist.....	196-207, 249, 253 A	xiv	Capital and date of charter.....	30 A	xvi
.....	125-127 A	xv	Soo Mining and Exploring Co.		
Abitibi river	192	viii	Capital and date of charter	13	vii
Black river.....	188	xii	Sophia (DIAMOND) gold mine, MANDOC TP., HASTINGS CO.		
notes.....	130-134 A	xiii	Arsenical ores of	102	xi
.....	243-245 A	xiv	ref. to	288	viii
report by Henderson.....	214-218 A	xiv	Closed down, 1901.....	236	xi
Jarvis.....	121-134 A	xiii	Notes on, 1897	92, 93	vii
Atikokan river.....	144	v	1898	41	viii
English River dist.....	174	vii	1900	117	x
Kenogami valley.....	112	iv	1901	200	xi
Mattagami valley.....	188-195 A	xiv	Sore lake. <i>See</i> Macaming lake.		
.....	120-122, 127, 136-146 A	xv	Sorensen, Martin.....	78 A	xiii
analyses	151-153 A	xv	Soudan, E. D.....	54 A	xiv
Michipicoten div.....	296, 297 A	xiv	Souesite.		
Moose River basin	175, 176 A	xiii	Lillooet, B.C.....	151 C	xiv
Sudbury dist., notes by Coleman.	105, 106 C	xiv	Soulier, A.....	105	viii
Timagami dist.....	161	x	Souris coal-field, SASK.		
Wabigoon Lake dist.....	175	vii	Tertiary lignite of.....	161 A	xiii
Solar Iron Works, PITTSBURG.			South Africa.		
Labour employed at, statistics... 370		R C	<i>See also</i> Transvaal.		
			Cobalt in	70 B	xiv
			Diamonds in	122, 123	ix
			.....	93 A	xiv
			Gold mining in, absence of alluvial	72	iv

	Page.	Vol.		Page.	Vol.
South Africa.—Con.			South Twin island, EAGLE LAKE, R.		
Prospecting in, with Govt. drills.	166	iii	R. D.		
Skoradite in	70	B xiv	Gold mining on and near.....	95, 96	x
African General Dev. Syn.			Western Oil and Gas Lands.		
Purchase by, of Mikado mine....	256	vi	Working in Raleigh tp.....	104	A xvi
African General Exploration			Southam, William	46	v
and Mg. Co.			Southampton, SAUGREEN TP., BRUCE		
Belmont gold mine worked by..	224	i	CO.		
	192	ii	Boring at, for salt.....	55	R C
America.			Southeast-bend brook, MATTAGAMI		
Copper production of, 1880-87...	371	R C	RIVER, ALG.....	129	ix
American Petroleum Co.			Southern Belle Cobalt Silver Mg.		
Capital and date of charter	30	A xvi	Co.		
Australia.			Capital and date of charter	30	A xvi
Cobalt ore in	70	B xiv	Ontario Peat Co.	9	x
Mining laws of, notes by R.C. 294-296		R C	Southwold tp., ELGIN CO.		
bay, MANITOULIN ISLAND, L.			Brick-yard in. See Shelden.		
HURON.			Southworth, Hubert.	184	A xiv
Niagara formation on.....	78	B xiii	Sovereign Cobalt Mg. Co.		
bay, NIPIGON LAKE, TH. B. D.			Exhibits of, at Buffalo	25	A xv
Canoeing in, dangerous.....	107	A xvi	(LATE FEIGLE) gold mine,		
Trading post at	106	A xvi	MARMORA TP, HASTINGS CO.		
photos	125, 133	A xvi	Mispickel in.....	102	xi
bay, NIPISSING LAKE, P. S. D.			Notes on, 1903	93	A xiii
Limestone on.....	94	B xiii	Shut down, 1901.....	198	xi
bay, STONY LAKE, PETERBORO			Gold Mg. and Development		
CO.			Corporation.		
Rocks on	212	viii	Capital and date of charter	12	vii
bay, WANAPITEI LAKE, NIP.			Work by, 1903.....	93	A xiii
Rocks on.....	82	i	Oil Co.		
	83	B xiii	Capital and date of charter	24	A xiii
Bay Oil Co.			Operating at Comber.....	117	A xiv
Capital and date of charter	26	A xv	Soweska lake, SOWESKA RIVER, ALG.		
Work by, Pelee island.....	43	B xiii	Kaolinic clays on	xii	A xiii
Bay post, L. NIPIGON, TH. B. D.			river, MISSINAIBI RIVER, ALG.		
	107	A xvi	Description of	136	A xiii
Bend, IND.			Forest fires on.....	177	A xiii
Peat plant at	28	A xiii	Lignite on, analysis	175	A xiii
Burgess. See Burgess tp.			photos	160, 161	A xiii
Canonto tp. See Canonto tps.			report by J. T. Bell.	164-168	A xiii
Carolina, U.S.			section	167	A xiii
Apatite of	176, 180,	441	sketch map showing.	163,	165
Mining laws of	14	i		A xiii	A xiii
notes by R.C.	283	R C	Post-glacial sediments along.....	143	A xiii
Crosby tp. See Crosby tps.			Timbered land along.....	146	A xiii
Dakota, U.S.			Sowman, George	226	i
Agricultural land in, cause of ...	202	v	Spain.		
Columbite in, with tin, beryl and			Apatite deposits in.....	441	R C
feldspar	236, 237	vii	Arsenic in	101	xi
Gypsum in	119	R C	production, 1895-99.....	110	xi
Mining laws of, notes by R.C....	280	R C	Cobalt production of, 1896-97 ...	70	B xiv
statistics in, notes by But-			Copper mines in, notes.....	371	R C
terfield	424	R C	See also Rio Tinto.		
Dumfries tp. See Dumfries			Iron ore in, exports to Great		
tp. N. and Dumfries tp. S.			Britain	xx	R C
Essex Oil and Gas Co.				121	ii
Capital and date of charter	24	A xiii	production, 1885.	224	R C
Well o, near Leamington	116	A xiv	pyrites in	172, 192	A xvi
lake, IGNACE DIST., R. R. D.			prices.....	184, 185	A xvi
Iron ore on	144	R C	Mineral lands in, laws re	25, 26	i
Moose river. See Mattagami			laws of	299	R C
river.			Royalties in.....	21, 25-30	i
Mountain, MOUNTAIN TP., DUN-			War of, with U. S. affects mining.	101	viii
DAS CO.			Spang, Chalfant & Co.		
Limestone at, Calciferous.....	47	B xiii	Wages paid by, statistics.....	370	R C
quarries	40	B xiii	Spanish forks, SPANISH RIVER, ALG.		
Sherbrooke tp. See Sher-			Granites west of	68	i
brooke tp., South.					

	Page.	Vol.
Spanish Mills (LATE SPANISH RIVER), SHEDDEN TP., ALG.		
Sulphite pulp plant at.....	199 A	xvi
River. See Spanish Mills.		
river, GEORGIAN BAY, L. HURON.		
Beaches on	185	x
Clay on, photos	21-24 B	xv
Distance from, to James bay....	192	v
Forest fires on	140	ix
Gravel beds north of.....	210	x
Minor ref. to	202	v
Notes on, by Parks	124, 125	ix
Rocks on and near:—		
arkose	74	i
clay-slates	73	i
crystalline schists.....	71, 80	i
granite	69	i
Huronian.....	65	R C
quartzite	72	i
slate for roofing.....	93	i
Timber on, lumbering.....	119	iv
pine	141	ix
Rutile near mouth of.....	208	ix
Waterpower on	252	vii
	10, 69 A	xiv
	13, 62, 63 A	xv
for Canadian Copper Co	141 C	xiv
See also Webbwood falls.		
River Nickel Mg. Co.		
Work by, 1896.....	278	vi
River Pulp and Paper Co.		
Mills of, photo.....	22 B	xv
Saugen clay on, notes and photos.	22-24 B	xv
Work by, 1905.....	13 A	xv
River Talc and Nickel Mg. Co.		
Capital and date of charter.....	12	vii
Spar island, L. SUPERIOR.		
See also Prince copper-silver mine.		
Apophyllite in	194	ix
Copper in, native	197	ix
Licence to explore	255	R C
Metallic minerals in.....	56 B	xiv
manganese See Rhodochro-		
site.		
paint. See Barytes.		
Sparkjer, DENMARK.		
Peat manufacture in, notes on ..	198	xii
Sparling, Francis, George and Mrs. L.		
Salt manufacturers. See Gray, Young and Sparling Co.		
Sparrow, chipping		
Abitibi dist.....	126 A	xiii
house		
Abitibi dist.....	126 A	xiii
vesper		
Abitibi dist.....	126 A	xiii
white-throated		
Abitibi dist.....	126 A	xiii
Sparry manganese. See Rhodochro-		
site.		
Spathic iron. See Siderite.		
Spawn inlet, RAINY LAKE, R. R. D.		
Granite on	50	iv
Spears, Malcolm	46, 48	xii
Specht, A. M.	144	x

	Page.	Vol.
Specific gravity.		
Columbite	235	vii
Description of	542	B C
How to find	448	R C
Lithographic stone.....	184	ii
Niccolite	20 B	xiv
Nickel carbonyl.....	107	viii
Smaltite	20 B	xiv
Sperrylite.....	190	ii
Various minerals, list of.....	201-203	vi
Speckled Trout lake, CAPREOL TP., NIP.		
Minor ref. to.....	273	xii
Nickel range crossing.....	284	xi
Spectacle lake, N. CROSBY TP., LAN- ARK CO.		
Iron ore on.....	44, 49	ii
lake, BLANCHE RIVER REG., NIP.		
Nomenclature of.....	222	xi
Specular iron ore.		
See also Hematite.		
Burgess tp., N., with apatite....	440	R C
Composition of.....	454	R C
Darling tp.....	58	ii
analysis	141	R C
Determination of	204, 215	vi
Echo lake.....	64	ii
Iron island, L. Nipissing.....	63	ii
Montreal river.....	142	R C
Timiskaming lake	142	R C
Wallace mine, Georgian bay....	63	ii
Specularite.		
Larder lake.....	214, 215 A	xvi
Speculation in mining lands.		
Baneful effect of.....	260	R C
See also Mining booms.		
Spedding, William James	27	ix
Speed river, WATERLOO CO.		
See also Guelph.		
Rocks on.....	115 B	xiii
limestone, analysis	122 B	xiii
Speer & Sons, A.	119	vi
Speight, T. B.		
Acknowledgments to.....	189	xii
Refs. to surveys by:—		
Abitibi dist.....	240 A	xiv
L. of the Woods dist.....	42 A	xiv
Minnitaki lake.....	172	vii
Timiskaming dist.....	39 A	xvi
Work by, 1897	197, 199, 201	viii
1902	5, 173	xii
1904	248-251 A	xiv
1905	116 A	xv
Speller, Frank N.		
Analysis by, of diorite, Port Coldwell	148	vii
Appointment of, 1900	7	x
Paper by, on Metallurgical In-		
dustries at Sault Ste. Marie....	61-68	x
Report by, on Ontario at the Pan-American Exhibition....	83-90	xi
Work by, 1901.....	7	xi
Spence, J. (H. B. C.)	139, 142	ix
Kenneth	135 A	xiii
Bros.		
Trap quarrying by, Bruce Mines.	125	viii
	28	xii

	Page.	Vol.		Page.	Vol.
Spence furnace.			<i>Sphyrapicus varius.</i> See Sapsucker,		
For pyrites ores, notes.....	194	A xvi	yellow-bellied		
Spencer, C. H.			Spider lake, PARRY SD. DIST.		
Bismuthinite found by, Barrie tp.	234	vii	Copper on.....	115, 116	xii
D.....	144	x		93, 94	A xiii
	75	xi	Spider Lake Mg. Co.		
D. J. W.			Exhibits of, at Buffalo....	25	A xv
Altitudes of Iroquois beach given			Spiegeleisen.		
by.....	177	ix	A variety of ferro-manganese....	462	R C
	230	A xiii	Spignet.		
given by, erroneous..	231	A xiii	Montreal river and tribs., L.		
Minor refs. to.....	152	viii	Superior.....	200	viii
	176	ix	Spikes.		
Views of, erroneous.....	234	A xiii	Canadian imports of, 1881-87.	247, 252	R C
re ancient sea-level,			Spinel.		
Eastern Canada ...	223	x	Burgess tp.....	210	ix
Iroquois beach	221	x	Comparison of, with corundum..	214	vii
	226	A xiii	Exhibit of, at Chicago.....	187	ii
Sperenberg, NEAR BERLIN, GER-			Raglan tp.....	237	viii
MANY.			Ross tp.....	233	viii
Salt beds of.....	178	i	Russia	237	viii
Sperry, Francis L.			Specific gravity of.....	233	viii
Analysis by, of :—			black		
copper ore, Blake tp.....	147	ix	Crystals of, in eastern Ont.....	187	ii
fire-clay, Toronto	54	R C	<i>Spinus tristis.</i> See Goldfinch, Ameri-		
matte, Sudbury dist.....	380	R C	can		
Assay by, of Sudbury ores.....	90	i	<i>Spiræa salicifolia.</i>		
Evidence by, before R. C. re :—			Abitibi Lake dist.....	241	A xiv
forest fires in mining dists....	311	R C	Mattagami valley	150	A xv
minerals, Sudbury dist..59, 104, 112		R C	<i>Spiranthes romanzoffiana.</i>		
tariffs	232	R C	Abitibi Lake dist.....	241	A xiv
Paper by, on nickel and nickel-			Mattagami valley	151	A xv
steel	182-194	iv	<i>Spirifera.</i>		
Sperrylite discovered by.....	5	A xiv	Port Colborne (near).....	35	xi
named after.....	181	R C	" <i>arenosa.</i>		
	161	C xiv	Port Colborne (near).....	35	xi
Sperrylite.			Kwataboahegan river	186	A xiii
Copper mt., B. C.....	162	C xiv	" <i>divaricatus.</i>		
Description of.....	190	ii	Kwataboahegan river.....	186	A xiii
Hardness of.....	202	vi	" <i>duodenaria.</i>		
Notes on, by Goodman.....	207	vi	Cayuga, N. tp.....	146	xii
Specific gravity of.....	202	vi	Hagersville.....	145	xii
Sudbury dist.....	89	R C	Kwataboahegan river.....	186	A xiii
	5	A xiv	St. Marys.....	148	xii
analysis	181	R C	" <i>euryteines.</i>		
	209	ix	Kwataboahegan river.....	186	A xiii
	162	C xiv	" <i>fimbriata.</i>		
Denison tp.....	92	i	Anderdon tp.....	126	xi
	178	ii	Kwataboahegan river.....	186	A xiii
	141	vii	" <i>gregaria.</i>		
	31	C xiv	St. Marys, near.....	151, 152	xii
notes by Coleman.....	282, 283	xii		96	B xiii
Tin associated with	211	ix	" <i>mauni.</i>		
Speziale, Andea	55, 57	xi	Hagersville	145	xii
<i>Sphærium.</i>			St. Marys, near.....	152	xii
Don river : Toronto.....	230	A xiii	" <i>mucronata.</i>		
" <i>sulcatum.</i>			Anderdon tp.....	125	xi
Emerald lake.....	87	B xiii	Thedford.....	8, 75	B xv
Sphagnum.			" <i>murchisoni.</i>		
See also Moss litter.			Kwataboahegan river.....	186	A xiii
As a source of peat	183	i	" <i>pennata.</i>		
Abitibi dist.....	190	viii	Thedford.....	154	xii
Suitability of, for moss-litter.....	186, 187	vi		69	B xiii
<i>Sphagnum fuscum.</i>			Stony pt., L. Huron.....	155	xii
Shippegan, N. B	144	iii	" <i>varicosus.</i>		
" <i>cymbifolium.</i>			Kwataboahegan river.....	186	A xiii
Germany, peat bogs.....	213	ii	Spittle bugs.		
Sphalerite. See Zinc-blende.			Abitibi dist.....	129	A xiii
Sphene. See Titanite.					

	Page.	Vol.		Page.	Vol.
<i>Spizella</i> . See Sparrow, house			Spruce. — <i>Con.</i>		
“ <i>socialis</i> . See Sparrow, chipping			Michipicoten div.....	189, 190, 206	vii
Split-rock portage , MISSINAIBI			137-142	viii	
RIVER, ALG.			200 A	xv	
Iron pyrites at.....	243, 256	v	area	13 Bull.	iii
Mispickel at	256	v	Goulais river.....	197, 199	viii
Split-rock rapid , NIPIGON RIVER,			Mamainse pen.....	72	iii
TH. B. D.			Montreal river.....	130, 200	viii
Character of	107 A	xvi	Michipicoten island.....	61	RC
Photos of,	106, 123 A	xvi	Missinaibi valley.....	140	ix
Rocks on and near.	107 A	xvi	Mississagi valley.....	159, 160, 172	xii
Split Rock Cable Co.	353	RC	Moss tp.....	79	v
Spodumene.			Nipigon Lake dist.....	111, 112	iv
Harcourt tp.....	48	xi	212	x	
Perth, near.....	194	ii	111, 138 A	xvi	
210	ix		Niven's base line and S. of, Alg.		
Spotswood, Alexander	24	ii	138-141	ix	
Spray , N. CAR.			Pishkanogama valley.....	135	ix
Calcium carbide works at, notes.	159	iv	Port Arthur and vicinity	114	ii
34-36	v		Rainy river.....	65	RC
Sprecher, George C.	41, 69 A	xiv	117	iv	
Spree river , GERMANY.			Savant and vicinity	74	v
Nickel on. See Schaud.			Seine river.....	149-153	v
Spring (water).			Shebandowan lake.....	117, 128	v
As source of supply.....	55, 56	i	Spanish river	125	ix
Brook , RAWDON TP., HAST-			Timagami Lake region.....	57	RC
INGS CO.			Wabigoon lake, near.....	171	vii
Conglomerate near.....	201	xi	black		
Granite near.....	202	xi	Abitibi dist.	125 A	xiii
lake , MICHIPICOTEN DIV., ALG.			214, 217-235, 242 A	xiv	
Minor ref to.....	291 A	xiv	125 A	xv	
Notes on, by J. M. Bell....	287, 288 A	xiv	Big river, Opasatika river	256	v
Lake Iron Co. (MICHIGAN).			Kenogami valley.....	112	iv
Record of iron furnace of.....	339	RC	Mattagami valley	105 A	xiii
Springer, Dr.			221 A	xiv	
Kaolin on land of, Hamilton ..	78, 86	RC	118-120, 127, 136, 140 A	xv	
tp., NIP.			diameter.....	142, 145 A	xv
Prospecting in	40 A	xvi	Michipicoten div.	295 A	xiv
Springfield, ILL.			Moose River basin	176 A	xiii
Brick pavement in.....	109, 113	iii	Savant lake.....	88	ii
Springvale , WALPOLE TP., HALDI-			gall louse See Gall louse.		
MAND CO.			white		
Fossils from.....	144	xii	Abitibi dist.	125 A	xiii
Lime-kilns at.....	56 B	xiii	214-223, 228-231, 242 A	xiv	
Limestone at, analysis	144, 152	xii	125 A	xv	
Corniferous	118 B	xiii	Mattagami valley	221 A	xiv
quarrying.....	54 B	xiii	118-121, 127, 136 A	xv	
Spruce.			diameter....	139-145, 152 A	xv
Abitibi dist.....	176-190	viii	Michipicoten div.....	295 A	xiv
107, 109, 124 A	xiii		Moose River basin	176 A	xiii
196-205, 249-251 A	xiv		harbour , L. SUPERIOR. See		
126, 127 A	xv		White Spruce harbour.		
Black River reg.	184-188	xii	Spurr, J. E.		
Blanche river.....	215	xi	Ref. to report by, on Mesabi iron		
173-182	xii		range	92	v
Distribution	120	iv	195,	x	
Fourth meridian and base lines,			164 A	xv	
R. R. d.....	180	vii	Views of, on horizon of Mesabi		
Gypsum mt.....	158 A	xiii	iron range	153, 154	ix
Hudson Bay slope.....	176	vi	Squash.		
Lac Seul	62	v	Mississagi river	164, 167	xii
Lake Huron slope.....	170	vi	Redstone river	107 A	xiii
Matawin river.....	132	v	Squasiche river , OPASATIKA RIVER,		
Mattagami valley.....	128-130	ix	ALG.		
105, 106, 122, 123 A	xiii		Contact, Pre-Cambrian and Palæ-		
188-195 A	xiv		ozoic, near	138 A	xiii
119-124, 144 A	xv		“Squaw” (YACHT)	253	vi
age.....	143 A	xv	42	vii	
diameter.....	142, 152 A	xv	59	viii	

	Page.	Vol.
Squaw chute, MISSISSAGI RIVER.		
Copper mining near.....	100	xii
Mining and gardening near.....	164	xii
Huronian near.....	171	xii
Squirrel.		
Abitibi dist.	127 A	xiii
island, L. ST. CLAIR, U. S.....	108	v
lake, TIMAGAMI DIST., NIP.		
Rocks in vicinity of.....	172	x
Stables.		
Moss litter for	214	ii
notes by Copenhagen Milk		
Supply Co.	211, 212	ii
<i>Stachys palustris.</i>		
Mattagami valley.....	151 A	xv
Stadacona Gold Mining Co.		
Capital and date of charter	9	x
Staebler, J. M.	85	x
Stafford tp., RENFREW CO.		
Limestone in.....	102, 104 B	xiii
Staffordshire, ENGLAND.		
Iron industry in.....	360	R C
Stag island (ISLE AUX CERFS), ST.		
CLAIR RIVER, U. S.....	108	v
Stahl, Christopher		
Smelting works (cobalt) built		
by, at Schneeberg.....	75 B	xiv
Stalactites.		
Definition of.	542	R C
Stalagmites.		
Definition of.....	542	R C
Stalker pyrites mine, NEAR PLEVNA,		
FRONTENAC CO.		
Notes on, by Fraleck.	164 A	xvi
Stambaugh, D.; H.; and J.	105	viii
Stamford tp., WELLAND CO.		
Limestone quarry in.....	96	i
	119 B	xiii
Stamp mills.		
Advantages of tests by.....	212	v
Cost of, per stamp.....	424	R C
Kingston school of mines, results.	214	v
Paper, by Hardman, on effective		
use of	237-243	vi
School of Practical Science, Tor-		
onto.....	176, 177	v
Standard Asbestos Co.		
Capital and date of charter	12	vii
Mining by, near Actinolite. 91, 92, 97		iii
Cement Co.		
Capital and date of charter.....	37 A	xiii
Chemical Co.		
Arsenic manufactured by.....	122	xi
Clay Co.		
Brick-yard of, North Bay.....	83 B	xv
Cobalt Mines.		
Capital and date of charter.....	29 A	xvi
Fertilizer and Chemical Co.		
Notes on, by Fraleck.....	193 A	xvi
Brodie	179	R C
Merritt.....	169	R C
Superphosphate production of,		
notes	33, 34	vi
gold mine, L. OF THE WOODS.		
Notes on, 1896	49	vi
Gold Mining and Develop-		
ment Co.		
Capital and date of charter.....	12	viii
	10	ix
Work by, Emperor mine.....	45, 84	viii

	Page.	Vol.
Standard Mica Co.		
Capital and date of charter.....	10	ix
Work proposed by, Burgess tp..	132	x
Manufacturing Co.	119	ii
Mining and Development Co.		
Capital and date of charter	7	vi
Mining Company of Algoma.		
Capital and date of charter.....	11	xi
Oil and Gas Co.		
Amount paid by, to Treasury,		
1900	18	x
Merged with United Gas and Oil		
Co.....	19	x
Oil Co.		
Represented at Pan-American		
Exhibition	84, 86	xi
Work by, Findlay, Ohio....	121, 123	i
Petrolea dist.....	107	ix
Peat Co.		
Capital and date of charter.....	5	xii
Sewing Machine Co.		
Output of, 1893	119	ii
Silver and Cobalt Mg. Co.		
Capital and date of charter.....	26 A	xv
Tool Co.		
Torsion tests by.....	193	iv
Underground Cable Co.	119	ii
White Lime Co.		
Kilns and quarry of, Galt, photo.	126 B	xiii
Standing-stone lake, E. OF L. NI-		
PIGON, TH. B. D.	123 A	xvi
Standish, M.	49 A	xiii
Stanger, H.	89 A	xvi
J. H.	134	x
Stanhope, P. W.	33	xi
Stanley Smelting Works.		
Capital and date of charter.....	31 A	xvi
Hollandia mine worked by	78 A	xvi
Katharine lead mine acquired by	91 A	xv
Notes on, 1905	91 A	xv
Worked by, 1906	18 A	xvi
tp., YORK CO.		
Gravel pits in. See Williams-		
burg.		
Stanleyville. See Micaville.		
Stannite.		
Hardness and specific gravity of.	202	vi
Stanros, Kusta	33, 35 A	xvi
Stapleton salt works, CLINTON,		
HURON CO.	23 A	xvi
Star Iron Mill, PITTSBURG.		
Labour employed at, statistics...	370	R C
of the East gold mine, MAR-		
BLE LAKE, FRONTENAC CO.		
Mining class at	39, 41 A	xv
Notes on, 1904.....	76, 77 A	xiv
1905.....	89 A	xv
1906 and photos	74, 75 A	xvi
Producing, 1905	4, 88 A	xv
of the East Gold Mg. and		
Milling Co.		
Capital and date of charter.....	37 A	xiii
Silver Cobalt Mg. Co.		
Capital and date of charter.....	29 A	xvi
Nova Scotia mine owned by.....	81 A	xv
silver mine, N. OF WHITEFISH		
LAKE, TH. B. D.		
Rich silver in Animikie forma-		
tion of.....	225	i
	238	iv

	Page.	Vol.
Stark, James	214	v
Starvation creek, NIGHT-HAWK LAKE, NIP.	130	ix
Starving pt., L. OF THE WOODS, R. D.		
Route from, to Turtle portage...	118	vii
Station iron mine, WOLLASTON TP., HASTINGS CO.		
Notes on, by Clute	133	R C
Statistics (MINERAL AND MINING).		
<i>See also</i> Mining lands.		
Note.—The opening pages of each volume contain a statistical report for the year.		
Collection of, by Geological Survey	6	vii
notes on	13, 14	x
Dakota, U. S.	424	R C
Importance of	5	i
Method of computing	4, 5 A	xvi
for copper.	4 A	xvi
Should be compulsory for mine owners	423	R C
Utility of	413	R C
to injure mining booms.	423	R C
Staurolite.		
L. Superior, north shore, in gneisses	210	ix
Sudbury dist., photo of cross-section	272, 273	xii
Stavanger, STAVANGER AMT., NORWAY.		
Pyrites mining near	192 A	xvi
Stead, J. E.		
Paper by, on Saniter process, ref. to	93, 95	ii
Speech by, re Mond nickel process	118	viii
Steam engines. <i>See</i> Locomotives. power.		
Disadvantage of, as opposed to electricity	133	v
Steamers.		
Nickel in boilers of	144	ii
Stearns, A. M.		
Notes by, on Black Bay quarry, L. Superior	100	i
James W. <i>See</i> Barnard-Argue-Roth-Stearns Oil and Gas Co.		
Steatite (SOAPSTONE).		
<i>See also</i> Rensselaerite.		
Huronian areas, notes by Bell ..	81	i
Occurrences of	210	ix
Rainy River dist.	73	iv
Pipestone lake	61, 76	iv
Rainy lake	76, 85	iv
Steben, GERMANY.		
School of mines at	498	R C
Steel, B. C.		
Boring by, for oil in Portland tp.	283	v
Steel.		
<i>See also</i> Flange steel.		
Aluminium for castings of	174	i
Canadian exports of	246-254	R C
production, 1886-7	243	R C
Comparison of, with nickel-steel.	191	iv

	Page.	Vol.
Steel.—<i>Con.</i>		
Manufacture of:—		
at Sault Ste. Marie	63, 64	x
97, 98		xi
in Canada, importance of	402	R C
notes by Bessemer and See-bohm	471	R C
Molybdenum for hardening	232	vii
46		xi
Nickel for hardening	9	i
384		R C
<i>See also</i> Nickel-steel.		
Pig-iron converted into, loss by.	84	ii
Quality of, improvement in	185	iv
Statistics of, 1881	116	ii
1882, 1891-2	82	ii
1901	12	xi
1902	12	xii
1903	2 A	xiii
1904	1-3, 13-15 A	xiv
1905	1-3, 15, 16 A	xv
1906	5, 6, 17, 18 A	xvi
Tungsten for hardening	233	vii
Use of, with concrete	174, 175 A	xiv
and Iron Implement Co.	119	ii
Co. of Scotland.		
Experiments by, on nickel-steel.	145	ii
rails.		
Canadian imports of, from U. S., 1881-87	253, 468	R C
For railways, size, weight and price	365, 366	R C
river, L. SUPERIOR.		
Animikie at mouth of	238	iv
Moraine on	50	R C
Rapids on, photo	112, 113	ix
Waterpower on	252	vii
ships.		
First construction of	368	R C
Steele, George W.	42	vi
Hugh	65, 156	v
75		ix
J. A.	74 A	xvi
J. E.		
Manager, Clearwater gold mine..	67	vii
91		viii
Jack Lake gold mine.		
81, 82		ix
106		x
242, 256		xi
82		xii
70 A		xiii
54 A		xiv
Jefferson		
Gas well of, notes on	128	i
gold mine, STURGEON LAKE, TH. B. AND R. R. DIST.		
Notes on, 1901	148	xi
Steep-hill falls, MAGPIE RIVER, L. SUPERIOR.		
Conglomerate at	344 A	xiv
Fall of	286 A	xiv
Portage at, photo of	176, 177	xii
River near, description	201	vii
Steep Rock Development Co.		
Capital and date of charter	30 A	xvi
Steep-rock lake, SEINE RIVER, R. R. D.		
Character of country near	133	xi

	Page.	Vol.
Steep=rock lake.—Con.		
Description of.....	144, 145	v
and geology.....	70-72	v
river from, to Shoal lake.....	68, 71	v
Glacial striæ on.....	89	v
Gold on.....	3	v
mining.....	267	vi
	150	xi
<i>See also</i> Elizabeth g. m.		
Harold Lake g. m.		
Iron ore on and near.....	44 A	xiv
mining.....	112	x
133, 265, 266		xi
notes by Miller.....	306-309	xii
overlying limestone....	76	ii
prospecting.....	25, 58	xi
20		xii
boring.....	50	xii
42, 43 A		xiii
pyrites on, notes.....	72, 73 A	xiv
173, 175 A		xvi
Limestone on.....	76	ii
152		vii
160		viii
analysis.....	100 B	xiii
Muskeg near.....	146	xi
Notes on, by Coleman.....	78	vi
Portage to, from Atikokan river, description.....	143	v
Schists near, chloritic.....	134	xi
Lake series.		
Views <i>re</i> , of Smyth and Van Hise.	158	vii
Steese, R. C.	105	viii
	118	ix
Stein, BAVARIA.		
Pencil works at.....	37	vi
Steindler, E. J.	83 A	xv
Steinhoff and Gordon.		
Govt. drill hired to.....	44, 45 A	xiii
Stella gold mine, ANDREW BAY, L. OF THE WOODS.		
Accident at, 1897.....	33	vii
Notes on, 1897.....	38, 39, 112	vii
1898.....	62, 63, 277	viii
1900.....	91	x
Photo of.....	112, 113	ix
pyrites mine, St. LAWRENCE co., N. Y.	191 A	xvi
Stellar Silver Cobalt Corporation.		
Capital and date of charter.....	29 A	xvi
<i>Stellaria longifolia.</i>		
Abitibi Lake dist.....	241 A	xiv
Mattagami valley.....	150 A	xv
Stelzner, Prof. A. W.		
Notes by, on gabbro, Sudbury dist.....	296	xii
origin of Sudbury ores.....	278	xii
	17 C	xiv
<i>Stenoposa fibrosa.</i>		
Gore Bay.....	77, 78 B	xiii
Stephanite.		
Badger mine, Port Arthur dist..	210	ix
Hardness and specific gravity of.	201	vi
Joachimsthal, Bohemia.....	61 B	xiv
Stephen, Septimus Alfred		
Notes by, on royalties in N. S. Wales.....	30, 31	i

	Page.	Vol.
Stephen tp., HURON CO.		
Brick-yards in. <i>See</i> Crediton.		
Onondaga formation in. <i>See</i> Exeter.		
Stephenson, George		
Locomotives improved by.....	366	R C
James		
<i>See</i> Tabor and Stephenson claims.		
Sterling, Mr.		
Apatite mining by, Loughboro tp.	251	ii
Sterling Emery Wheel Mfg. Co. ...	240	viii
Stettin, GERMANY.		
Peat bog near.....	213	ii
<i>See also</i> Carolinenhorst.		
Steubenville, OHIO.		
Brick pavement of.....	112	iii
Stevens—?		
Part owner, Raymond mica mine.	126	xii
A. E.	52	xi
W. F.	91	viii
	105	x
W. H.		
Experiments by, with insecticides.....	29, 114	xi
island, SHOAL LAKE, L. OF THE WOODS.		
Gold mining near.....	253	xi
pottery works, BALDWIN, GA.		
Analysis of clay from.....	160 A	xiii
Stevenson, E.		
Gold mining by, Eagle lake.....	96	x
L.		
Gold mining by, Eagle lake.....	96	x
Stevensville, BERTIE TP., WELLAND CO.		
Natural gas supply of.....	44	xi
	21, 91 A	xiv
Stewart, D. E. K.		
Evidence by, before R. C. <i>re</i> :—		
gold, Hastings dist.....	110, 111	R C
lithographic stone, Madoc tp.	53	R C
mica, Hungerford tp.....	149	R C
mining statistics.....	425	R C
Interested in Sophie gold mine..	92	vii
	117	x
Iron mining by, near Madoc....	97	vii
	41	viii
Owner, Brennan iron mine.....	262	xi
Kennefic, McKellar and Rollins claims.....	105	xi
Elihu	145	x
G. M.	209	x
J.	105	viii
	118	ix
J. H.	117	vii
	236	xi
John		
Evidence by, before R. C. <i>re</i> :—		
iron, Hastings dist.....	132	R C
mining laws.....	314	R C
phosphate manufacture....	402	R C
Richardson Hill location....	111	R C
Minor ref. to.....	61	vi
	244	viii
Louis B.	215	i
	217	iv
M.	144	x
T. J.	87, 90	xi

	Page.	Vol.		Page.	Vol.	
Stewart's location, PIGEON RIVER,			Stobie nickel mine.—Con.			
TH. B. D.....	189	vi	Discovery of.....	58	R C	
Stewartsville, OHIO.....	121	i		236	xii	
Stibnite (ANTIMONY GLANCE).				3, 134, 169	C xiv	
Determination of.....	204, 209	vi	Inspector's report on, 1891.....	230	i	
Hardness of.....	201	vi		1892.....	245	ii
Marmora and Sheffield tps.....	190	ii		1893... 183, 184	iii	
Occurrences of.....	210	ix		1894... 245, 246	iv	
Palmerston tp.....	219	v		1895... 272, 273	v	
Specific gravity of.....	201	vi		1896... 273, 274	vi	
Stickney, J.....	110	A xv		1897..... 96, 97	vii	
Stifel, Edward W.....	59	viii		1898.....	36	viii
Stiff, Charles E.				1899..... 97, 98	ix	
Report by, on Natural gas in				1900... 122, 123	x	
Ontario.....	42-45	xi		1901, 268, 269, 279	xi	
Stiker, S. P.....	134	i		1902, idle.....	57	xii
Stilbite.			Map of.....	At end of vol.	xii	
Composition of.....	227	vi	Matte from, analysis.....	152	C xiv	
Reported in trappean rocks.....	210	ix	Minor refs. to.....	103	R C	
Stiles, T. W.				285	xii	
Manager, Ontario smelting works.	280	xi	Nickel oxide from, analysis.....	180	ii	
	121	xii	Notes on, by Bell.....	24	R C	
Still lake, E. OF L. NIPIGON, TH.				Merritt..... 89, 90	R C	
B. D.			Ore deposits of, character....	278, 279	xii	
Iron range on.....	144, 145	A xvi		197	A xiii	
Stillman, C. O.			Photos of.....	256, 257	xi	
Statistics by, of oil in Kent co... 94	A xvi			256, 257	xii	
Stilpnomelane.			Plans and geology of.....	263-268	xii	
Madoc tp.....	210	ix	Production from.....	21, 138, 156	C xiv	
Stirling, Charles			Railway to.....	136	C xiv	
Gold prospecting by, L. of the			Rocks at and near.....	434	R C	
Woods.....	102	vi		291	xii	
	60	viii		81	C xiv	
Part owner, Trojan and Sullivan			conglomerate.....	9	C xiv	
mines.....	43, 45	vii	enstatite in.....	295	xii	
Stirling, RAWDON TP., HASTINGS CO.			greywacké.....	89	C xiv	
Brick-yard in.....	69	B xv	nickel-bearing.....	13	C xiv	
Phosphate and Mfg. Co.			norite.....	19, 101, 114	C xiv	
Capital and date of charter.....	12	vii	notes by Coleman.....	57-60	C xiv	
Stobie, James			petrography.....	207	x	
See also Stobie iron mine.				290, 294	xii	
Stobie nickel mine.			quartz porphyry.....	240	xii	
Evidence by, before R. C. re:—			syenite.....	434	R C	
iron, Aberdeen tp.....	143	R C	Section of.....	59	C xiv	
minerals, Sudbury dist.			Sulphides of.....	277	xii	
	58, 104, 112	R C		153	C xiv	
mining laws.....	310	R C				
tariffs.....	231	R C	Mining Co.			
technical education.....	426	R C	See also Stobie copper mine.			
Iron mining by, Aberdeen tp... 143	R C		Capital and date of charter.....	9	x	
	64	ii	No. 3 mine. See Levack pro-			
Minor ref. to.....			perties.			
Part owner, nickel mine, Levack			station, BLEZARD TP., NIP.			
tp.....	274	v	Farm land near.....	106	C xiv	
Stobie iron mine....	249	iv	Rocks at and near.....	92	C xiv	
Stobie copper mine, JOHNSON TP.,			Stockholm, SWEDEN.			
ALG.....	22, 86	xi	Mining school at, notes by Rich-			
falls, VERMILION RIVER.			ards.....	512, 513	R C	
Galena and zinc-blende at.....	91	i	Stockton, Lewis.....	51	xii	
Nickel mining at. See Creighton			Stockwell, F.			
mine.			Lead mining by, Loughborough			
Onwatin slate at.....	95	C xiv	tp.....	146	R C	
iron mine, ABERDEEN TP., ALG.			Stockworks.			
Notes on, 1894.....	249	iv	Definition of.....	52	iv	
Quartzite in, Huronian.....	68	R C	Stodart (1823).			
nickel mine, BLEZARD TP., NIP.			Experiments by, on nickel alloys.	165	C xiv	
Accident at.....	53, 57	xi	Stoddart, Peter.....	50	xi	
Copper in, percentage.....	378	R C	Stokes, A. H.....	28	ix	
pyrites in.....	90	i	Stolpas, ALNOE, SWEDEN.			
			Rock at, like heronite.....	190	ix	

	Page.	Vol.		Page.	Vol.
Stone, C. W.	98	x	Storms, W. H.		
	19, 257	xi	Ref. to paper by, on gold in Cali-		
C. J.	73	vii	fornia	71	iv
	79	viii	Stormy lake, E. OF MANITOU LAKE,		
George C.	13	i	R.R.D.	126	vii
J. H.	105	xi	Storrs, E. R.	95	viii
R.	118	ix	Storrington Mining Co.		
	144	x	Capital and date of charter	12	vii
	75	xi	tp., FRONTENAC CO.		
W. E.			Amber in.....	245	i
Notes by, on auriferous slate,			Apatite in	194	ix
near Bad Vermilion lake	64	v	mining.....170-173, 176, 441		R C
W. S.	82	vi	See also Opinicon mine.		
Stone-berry. See Cherry, choke			Barytes in.....	195	ix
Stone portage, MISSINAIBI RIVER,			Iron in, hematite	199	ix
ALG.....	194	viii	mining. See Equitable		
quarries. See Quarries.			mine.		
Stonebridge, WELLAND CO.			See also Dog lake.		
Natural gas supply of	44	xi	Marl in.....	121 A	xiv
Stonedam portage, PIPESTONE			Mica mining in.....133, 135		x
LAKE, R. R. D.			See also Wheal Mary mine.		
Pyrrhotite on.....	61, 74	iv	Nickel in.....	220	v
Stonehouse, William			Story, W. W.	203	v
Pottery works of, Carlton West.	118 B	xv	Stoves.		
Stoness, Jabez			For burning peat, diagram and		
Manager, Bobs Lake mica mine..	89 A	xvi	notes ..226,227		xii
Mica prospecting by, Bobs lake..	103 A	xv	photo....208, 209		xii
Part owner, Stoness mica mine..	133	x	Imports of, to Canada, 1881-87..		
	289	xi		248, 253	R C
Stoness mica mine, BEDFORD TP.,			Stowell, J. M.	200	R C
FRONTENAC CO.			W. A.		
Notes on, 1900.....	133, 134	x	Gold mining by, near Wawa lake.	73	xi
1901	289	xi	Licence to	144	x
1902.....	127, 128	xii		64	xii
1903.....	92 A	xiii	Manager, Sunrise gold mine	47 A	xiii
Production of, 1898	18	viii	Straight lake, MONCRIEFF TP., ALG.		
1902, decreasing..	131	xii	Copper on.....	106	R C
Stony lake, PETERBOROUGH CO.			Crystalline schists on.....	80	i
Corundum belt on	205	viii	Diabase dikes near	76	i
Escarments near.....	97 B	xiii	Galena south of.....29, 106		R C
Gold on	204	xi	Greywacké on	74	i
Peristerite on	206	ix	Minor ref. to.....	35 B	xiv
Rocks on and near.....	209-213	viii	Striae on, direction.....	211	x
Lake bay, KOSHKABOGAMOG			Lake Nickel Mg. Co.		
LAKE, PETERBORO CO.			Capital and date of charter	12	vii
Potsdam formation on.....	209	viii	Stranahan, C. B.	134	vii
pt., L. HURON.				107	x
Fossils from	155	xii	Strange quarry, ROCKWOOD, WEL-		
Limestone from, analysis.....	155	xii	LINGTON CO.		
	69 B	xiii	Character of limestone from	121 B	xiii
Hamilton formation.	25 B	xiii	tp., TH. B. D.		
Point road, ESSEX CO.			Silver mining in	202	R C
Oil on.....	108 A	xv	See also Augusta mine.		
Stordoan, NORWAY.			Gopher mine.		
Pyrites deposits at	192 A	xvi	Silver Bluff mine.		
Stormont co.			Silver Glance mine.		
Fossils from	224	x	Straparollus canadensis.		
Limestone in, notes by Miller...	110 B	xiii	Anderdon tp.....	127	xi
dairy farm.	218	x	Stratford, S. EASTHOPE TP., PERTH		
Storms.			co.		
Abitibi dist., damaging forests ..	199 A	xiv	Altitude of	141	xii
Hamilton, 1894	30	iv	Brick making at :—		
Hawk lake, S. of Shebandowan			clay for.....	115 B	xv
lake	128	v		150 A	xiv
Lac des Mille Lacs, notes by			analysis	17 B	xv
Hind and Palliser.....	119	v	notes and photos.....	42, 58, 91-94 B	xv
Lake of the Woods.....	185	v	Limestone at, thickness	123 B	xiii
Mattagami valley	119 A	xv	Trenton	113 A	xv
Shebandowan Lake dist.....	119, 120	v			

	Page.	Vol.		Page.	Vol.
Stratford.—Con.			<i>Streptelasma prolificum.</i>		
Natural gas at, boring for.....	150	xii	Kwataboahagan river.....	18 A	xiii
	96 B	xiii	Port Colborne, near.....	35	xi
Oil well at, log.....	110, 114 A	xv	<i>Streptopus roseus.</i>		
Peat bogs near.....	191	i	Abitibi Lake dist.....	241 A	xiv
Brick, Tile and Lumber Co.			Mattagami valley.....	150 A	xv
Capital and date of charter.....	26 A	xv	Stretch, R. H.		
Clay used by, analysis.....	12, 14 B	xv	Section by, of Gatling gold mine.	107	R C
Photo of cut-off machine of.....	45 B	xv	Striae. See Glacial striae.		
Works of, notes.....	91, 92 B	xv	Striberg, F. G.	341	xii
Peat Co.			iron mine, SWEDEN.....	338	xii
Peat bog of, Brunner tp., notes..	205	xii	Stribling, F. W.	144	x
				75	xi
				67	xii
Strathcona, Lord			Strickland, H. T.		
High Commissioner for Canada..	4	vii	Belmont gold mine discovered		
Wire from, to Roberts-Austen...	116	viii	by.....	47, 48	iii
Strathcona, CAMDEN E. TP., AD-			<i>Stricklandinia canadensis.</i>		
DINGTON CO.			Thorold.....	117 B	xiii
Cement works at.....	18, 26 B	xiii	" <i>elongata.</i>		
	116 B	xv	Hagersville, near.....	145	xii
notes and photo.....	136-138 A	xiv	Walpole tp.....	143	xii
nickel mine, LEVACK TP.			Stringer silver mine, COLEMAN TP.,		
Analysis of ore from.....	67 C	xiv	NIP.		
Boring in.....	197 A	xiii	Diabase in.....	50 B	xiv
	65 C	xiv	Stroganoff, Count	487	R C
Notes on, by Sjostedt.....	198 A	xiii	Strom, Alexander	232	i
	67 C	xiv	<i>Stromatopora concentrica.</i>		
Photo of.....	208, 209 A	xiii	Gore Bay.....	77 B	xiii
Strathroy, ADELAIDE TP., MIDDLE-			" <i>granulata.</i>		
SEX CO.			North Cayuga tp.....	146	xii
Brick-yard of, notes.....	79 B	xv	" <i>mammillata.</i>		
Straubel, Gustavus	89 A	xiv	North Cayuga tp.....	146	xii
Straw, Peter	236	v	Rockford.....	143	xii
Straw.			" <i>perforata.</i>		
Value of, as fertilizer, compared			Rockford.....	143	xii
with moss-litter.....	142	iii	" <i>tuberculata.</i>		
Strawberries.			Rockford.....	143	xii
Abitibi dist.....	253 A	xiv	Woodstock.....	148	xii
Black and Blanche rivers....	188	xii	" <i>tubulifera.</i>		
L. Superior, north shore.....	147	viii	Kwataboahagan river, notes....	184 A	xiii
Mamainse harbour.....	129	viii	photo....	192 A	xiii
Tomstown.....	54 A	xvi	Stromatoporoids.		
Strawberry blight.			Kwataboahagan river.....	182 A	xiii
Night-hawk lake.....	123 A	xiii	L. Superior, N. shore.....	156	viii
island, L. HURON.			Rockford.....	88 B	xiii
Granite on, for building.....	93	i	<i>Strombodes pentagonus.</i>		
Ordovician rocks on.....	86	i	Anderdon tp.....	125	xi
lake, E. OF PIPESTONE LAKE,			Strong, B. E.	156	vi
R. R. D.			William M.		
Minor ref. to.....	88	vi	Manager, Foley gold mine.....	68	vii
Rocks on, chlorite schists.....	85	iv		84	viii
Keewatin.....	50, 63	iv		82	x
Strawhat lake, NEAR STEEP-ROCK			Scramble gold mine....	37	ix
LAKE, R. R. D.			Sultana gold mine.....	39	ix
Iron ore on.....	309	xii		251	xi
pyrites on.....	182 A	xvi	Notes by, on Sultana gold mine..	80	xi
notes by Fraleck....	184 A	xvi	tp., P.S.D.		
Street, William P. R.			Artesian wells in.....	54	i
Decision by, re natural gas in			Boring in, for iron.....	51	xii
Kingsville.....	118	i	Strontianite.		
pavements. See Brick, vit-			Anderdon tp., in dolomite.....	127	xi
rified			L. Erie, Put-in-Bay island.....	127	xi
tp., NIP.			Nepean tp., analysis.....	210	ix
Arsenolite in.....	195	ix	Strontium.		
Strelow, Albert	58 A	xv	Kingston and near Sydenham...	60 B	xiii
<i>Streptelasma corniculum.</i>			Mineral pt., L. Superior.....	75	iii
Cayuga N. tp.....	146	xii	<i>Stropheodonta</i> or <i>Strophodonta.</i>		
Hagersville.....	145	xii	Anderdon tp.....	126	xi
Villanova.....	143	xii			

	Page.	Vol.
<i>Stropheodonta ampla.</i>		
Cayuga N. tp.....	146	xii
Port Colborne (near).....	35	xi
St. Marys.....	152	xii
Walpole and Townsend tps..	143-145	xii
" <i>atrypa.</i>		
Anderdon tp.....	125	xi
" <i>concava.</i>		
Kwataboahagan river	186 A	xiii
Stony pt., L. Huron.....		
" <i>demissa.</i>		
Anderdon tp.....	125	xi
Port Colborne (near).....	35	xi
St. Marys.....	152	xii
Cayuga N. tp.....	146	xii
Hagersville.....	144	xii
Kwataboahagan river	186 A	xiii
Stony pt., L. Huron.....	155	xii
Villanova.....	143	xii
Walpole tp.....	144	xii
" <i>inaequistriata.</i>		
Anderdon tp.....	125	xi
Cayuga N. tp.....	146	xii
Hagersville	145	xii
Kwataboahagan river	186 A	xiii
St. Marys.....	152	xii
Walpole tp. and Woodstock.	144, 148	xii
" <i>patersoni.</i>		
Cayuga N. tp.....	146	xii
Hagersville	145	xii
Kwataboahagan river	186 A	xiii
" <i>perplana.</i>		
Anderdon tp.....	125	xi
Kwataboahagan river.....	186 A	xiii
<i>Strophomena.</i>		
Gore Bay.....	77 B	xiii
<i>Strophonella ampla.</i>		
Kwataboahagan river.....	186 A	xiii
<i>Strophostylus unicus.</i>		
Kwataboahagan river.....	187 A	xiii
Structural materials.		
See also Building stone, etc.		
Paper on industry of, by Director,		
1890.....	95-114	i
Distribution of, notes by Blue...	177	i
Struthers, Joseph		
Description by, of Hoepfner re-		
fining process.....	222	ix
Dr. R. B.		
Inquests by, Sudbury dist.....	173	iii
	68	vi
	36	viii
	51, 52	xi
	44-46	xii
	38 A	xiii
W.....	144	x
	75	xi
	67	xii
Stucco lake, HASTINGS CO.		
Marl at.....	59 B	xiii
Stull, W. W.		
Analysis by, of feldspar, Port		
Coldwell.....	147	vii
Jasper conglomerate found by,		
N. of Hutton tp.....	186	x
Stuntz iron mine, TOWER, MINN...	124	R C

	Page.	Vol.
Sturgeon.		
L. of the Woods.....	189	v
Mattagami river.....	120, 131 A	xv
Rainy river.....	208	v
Roe of, for caviar	167	v
Falls, SPRINGER TP., NIP.		
Agricultural land near.....	103	iv
Brick-yard at.....	84 B	xv
clay for, analysis.....	15, 27 B	xv
Saugeen.....	20 B	xv
Pulp mill at.....	13 A	xv
	199 A	xvi
Reduction works at, for Cobalt		
ores.....	12 A	xvi
Waterpower at	13 A	xv
falls, MATTAGAMI RIVER, ALG.		
Description of, by Kerr.....	120 A	xv
Rocks at	133 A	xv
Sturgeon below.....	131 A	xv
Waterpower of.....	133 A	xv
falls, SEINE RIVER.		
Clay near.....	146	xi
Description of river near.....	68, 69, 153	v
Gold mining near.....	58	iv
	75	vii
	81	viii
	41	x
See also Independence mine.		
Iron at.....	135	xi
Minor ref. to.....	79	vi
Sericite schist near.....	134	xi
Falls Power Co. See Imperial		
Pulp and Paper Co.		
lake, EAST OF L. OF THE WOODS.		
Gold mining in, 1896.....	6 Bull. i	
	267	vi
	1899.....	46-49 ix
	1900.....	74, 75 x
	1903.....	64 A
Minor ref. to.....	185	v
Notes on, by Coleman.....	89, 90	vi
lake, R. R. AND TH. B. DIST.		
Altitude of	110	iv
Fish in.....	40	x
Garnets in sand on.....	173	vii
Geology of, and vicinity.....	165	vii
Gold on and near.....	147-149	xi
See also St. Anthony Reef mine.		
mining, 1900.....	38-40, 102, 103	x
	1901....	16, 256 xi
	1902	16, 82-86 xii
	1906.....	55, 60 A
Huronian on and near.....	18	R C
	210	x
Map of	39	x
Nepheline-syenite on.....	87, 104	xii
Photo of portion of	55 A	xiv
Route from, to Savant lake....	87, 88	xii
to, from Ignace, descrip-		
tion.....	147, 148	xi
lake, VICTORIA CO.		
Trenton fossils near.....	113 B	xiii
Lake Mining Co.		
Work by, 1900.....	103	x
	1901.....	149, 150, 256 xi
For further refs. See English		
River Gold Mg. Co.		
pt., L. SUPERIOR.		
Diabase at, sketch of.....	145	ix

	Page.	Vol.		Page.	Vol.
Sturgeon river, GROUND-HOG RIVER,			Sudbury.—Con.		
ALG.	133	ix	Rocks at and near.....	85	i
river, NIPISSING LAKE, NIP.			breccia	12	c xiv
Character of.....	110	A xvi	diabase dikes.....	434	R c
H. B. C. post on, abandoned. 107,	110	A xvi		76	i
Lumbering on.....	119	iv		52	c xiv
Pulp-mill on. <i>See</i> Sturgeon Falls.			photo.....	84	c xiv
Webbwood.			gabbro, notes.....	75-78	c xiv
Rocks on and near.....	112	A xvi	photo.....	77, 122	c xiv
Roses on	139	A xvi	granite, photo.....	125	c xiv
Sturgeon in.....	111	A xvi	greywacké.....	88, 89	c xiv
Waterpower on. <i>See</i> Sturgeon Falls.			Huronian.....	128	c xiv
Webbwood.			norite.....	121	c xiv
river, STURGEON LAKE, R. R.			petrographical notes. 205-208	x	
AND TH. B. DIST.			quartz-porphry.....	9	c xiv
Huronian in valley of	171	vii	quartzite.....	92	c xiv
Sturtevant.			Smelting at, description.....	378, 379	R c
Experiments by, on iron ore....	357	R c	limestone for.....	2, 13	B xiii
Styria, AUSTRIA-HUNGARY.			quartz for. <i>See</i> Quartz.		
Iron smelting in, with charcoal. 483		R c	Sulphur in, roast beds at.....	61	x
Succinite. <i>See</i> Amber.			Brick Co.		
Suckers.			Capital and date of charter.....	24	A xiii
Lake of the Woods.....	97	vi	Cobalt Mg. Co.		
Michipicoten div.....	297	A xiv	Capital and date of charter.....	30	A xvi
Nipigon Lake dist.....	139	A xvi	Copper and Nickel Co.		
Sucker Creek Gas and Oil Co.			Capital and date of charter.....	10	ix
Capital and date of charter.....	26	A xv	Customs Smelting Co		
lake, BLANCHE RIVER, NIP.			Capital and date of charter.....	12	vii
Notes on, by Bolton.....	181	xii	creek, NEAR SUDBURY, NIP.		
lake, FLYING-POST BROOK, MIS-			Greywacké on.....	89	c xiv
SINAIBI RIVER, ALG.....	139	ix	dist., ALG. AND NIP.		
lake, MANITOU LAKE DIST.,			Augite in.....	195	ix
R. R. D.....	62	iv	Building stone in	93	i
river, CHIN RIVER, ABITIBI			Cobalt in, production.....	18, 19	v
DIST.....	251, 252	A xiv		25-27, 141, 142	vii
				19	viii
Suckert, J.				8	A xiv
Paper by (and Willson) on the			Copper in, compared with copper		
Carbides and Acetylene com-			deposits of Rio Tinto. 372		R c
mercially considered.....	152-166	iv	discovery.....	24	R c
Sudbury, McKIM TP., NIP.			evidence before R. C.		
Agricultural land near.....	103	iv		103-106	R c
	161	x	notes by Bell.....	23	R c
	106	c xiv	Merritt....	88-90	R c
Beach near, altitude.....	211	x	production.....	18, 19	v
	103	c xiv		25-27, 141, 142	vii
Brick-yard near	55, 56	B xv		19	viii
clay for, analysis.....	26, 27	B xv	Galena in.....	203	R c
Saugeen.....	20	B xv		91	i
Cyanite near	237	vii	auriferous.....	29	R c
Graphite near.....	168	x	Gold in, evidence before R. C....	66	R c
Huronite near.....	194	ii	Iron pyrites in.....	181	A xvi
Iron ores near, notes by Coleman.			Minerals in, distribution.....	151	c xiv
	187, 201	x	evidence before R. C.		
Kame near	102	c xiv		58, 59	R c
Millerite at	213	vi	new, paper by Em-		
Mining class at.....	217	iv	mens.....	168-170	ii
	6, 217	v	paper by Blue..	433-436	R c
	260	vii	Mining in, report for:—		
Mining Land Agency at:—			1891.....	230-233	i
report for 1900.....	147, 148	x	1892.....	241-242	ii
1901	82	xi	1893.....	182-191	iii
1902	49	xii	1894.....	240-249	iv
1904	34	A xiv	1895.....	267-274	v
Mining Recorder's office at.....	36	A xvi	1896.....	270-277	vi
Nickel ores near, mining. <i>See</i> Sud-			1897	93-97	vii
bury dist.			1898.....	33-37	viii
niccolite.....	194	ii	1899.....	96-99	ix
Polydymite in	194	ii	1900.....	121-125	x

	Page.	Vol.
Sudbury dist.—Con.		
Mining in, report for.— <i>Con.</i>		
1901.....	276-284	xi
1902.....	117-125	xii
1903.....	82-87	A xiii
1904.....	68-72	A xiv
1905.....	61-66	A xv
1906.....	62-67	A xvi
Nickel and nickel ores of:—		
contrasted with Cobalt ores...	101	A xiii
discovery.....	88, 89	i
	214	ix
	235, 284, 286	xii
	3, 134	C xiv
matte of, analysis.....	380	R C
	154	ii
	152	C xiv
method of treatment.....	404, 405	R C
notes by Levat.....	153-155	ii
notes on.....	23, 24	R C
	88, 89, 176	i
	129-132	ii
by Roberts-Austen..	106, 107	viii
proportion of claims held by		
International Nickel Co.	22	xi
report by Coleman	235-303	xii
	Pt.	C xiv
roasting.....	379	R C
	168, 169	iii
smelting.....	370, 378, 391, 404, 405	R C
notes by R. C.....	xxii	R C
paper by Bain.....	216, 217	ix
See also Canadian Copper Co.		
Orford Copper Co.		
Copper Cliff.		
statistics.....	72	R C
1892-1894.....	20, 21	iv
1895.....	18, 19	v
1897.....	25-27, 141, 142	vii
1898.....	19	viii
1899.....	17, 18	ix
1900.....	35, 36	x
1901.....	19, 20	xi
1902.....	17	xii
from 1890.....	288	xii
1903.....	6	A xiii
1904.....	9-11	A xiv
1904 from commencement..	118	C xiv
1905.....	47	A xv
1906.....	15, 56	A xvi
unlimited.....	148	ii
Palladium from.....	6	A xiv
Platinum in, notes by Emmens .	5	A xiv
sperrylite.....	89	R C
	5	A xiv
analysis.....	181	R C
	209	ix
	162	C xiv
notes by Coleman.		
	282, 283	xii
See also Denison		
tp.		
Pyrrhotite in.....	88, 89	i
	207	ix
	14, 15, 75, 116	C xiv
analysis.....	163, 165	ii
	208	ix
description	158	C xiv

	Page.	Vol.
Sudbury dist.—Con.		
Pyrrhotite in.— <i>Con.</i>		
evidence before R. C.....	103-109	R C
notes by Bell	23	R C
Rocks of, notes by Bell.....	72-86	i
Silver in, evidence before R. C. .	203	R C
percentage.....	151, 153	C xiv
Sulphur fumes in.....	286	xii
	22	A xvi
Surveying in, difficulties of.....	171	i
Waterpower in.....	10, 68	A xiv
	62, 63	A xv
Zinc-blende in.....	91	i
Mining Co.		
Capital and date of charter.....	12	vii
Mining div.		
Creation of, and description... 36, 38		A xvi
Power Co.		
Plant of, completed.....	13	A xv
Work by, Vermilion river....	68, 69	A xiv
	62	A xv
Suett, W.	106	vii
Sugar.		
Hardwood bush for making,		
Agawa river.		
"Sugar Apatite.".....	131	viii
Description of.....	442	R C
Sugar island, L. HURON.	109	v
	152, 155	viii
island, STUCCO LAKE, HASTINGS		
co.		
Trenton formation on.....	59	B xiii
maple bush.		
Blanche river.....	215	xi
Sugarloaf rapid, MISSINAIBI RIVER,		
ALG.	195	viii
Sullivan, Alan		
Manager for Anglo-Canadian		
Gold Estates.....	48, 49	ix
	40, 73, 74	x
	15, 149, 256	xi
	15, 16	xii
Manager, Elizabeth gold mine.		
	133, 150, 240	xi
Ontario Gold Conces-		
sions.....	48, 49	ix
Notes by, on Elizabeth mine .	16, 17	xi
Savant Lake allu-		
vial.....	18	xi
D.		
Brick-yard of, Picton.....	95	B xv
clay for, analysis.....	15	B xv
J.		
Beryl found by, Lyndoch tp. 234,	235	vii
Manager, Olden zinc mine.....	93	A xv
	79	A xvi
J.		
Mining by, Michipicoten div. .	105	viii
gold mine, CAMP BAY, L. OF		
THE WOODS.		
Notes on, 1898.....	45	vii
quarry, PICTON, PRINCE ED-		
WARD CO.		
Limestone from, analysis....	99, 100	B xiii
Sulman-Teed cyanide process.		
Description of.....	59	vi

	Page.	Vol.
Sulphide, HUNGERFORD TP., HASTINGS		
co.		
Fyrites mining at.....	79	A xvi
Sulphuric acid plant, photo.....	158, 197, 198	A xvi
ores.		
Treatment of	375	R C
Sulphur (BRIMSTONE).		
Earth's crust, proportion in	447	R C
For pulp industry, notes.....	199	A xvi
sulphuric acid.....	179	R C
.....	20	A xv
Hardness of.....	201	vi
In iron ores, evil effects of.....	478	R C
.....	88	ii
.....	24	xi
marl, evil effects of	121	A xiv
oil, process for extracting.....	27	iv
peat bogs.....	206	ii
Japan.....	179	R C
New Caledonia, percentage in		
nickel ores.....	151	ii
Notes on, by Copp.....	448	R C
Goodwin.....	220	vi
Ontario, Burgess N. tp.....	210	ix
Clinton.....	194	ii
Denhigh tp.....	210	ix
Hastings co., iron ores.	173	C xiv
Marmora tp., plant for		
treating	56-61	iii
mineral-bearing rocks .	22	A xvi
Niagara Falls.....	210	ix
peat bogs, proportion of.	233	xii
Shilton mine.....	61	A xvi
Sudbury dist., elimina-		
tion of.	404	R C
.....	168, 169	iii
.....	61	x
.....	300, 301	xii
fumes, effect of.	286	xii
Pennsylvania, proportion in an-		
thracite	233	xii
Price of crude	220	vi
Relation of, to nickel in pyrrho-		
tite	164	ii
Sicily	179	R C
laws <i>re</i> mining.....	298	R C
Specific gravity of.....	201	vi
springs.		
Charlotteville tp.	210	ix
Knox tp., east of.....	235	A xiv
Sulphuric acid.		
Brimstone for making.....	179	R C
replaced by pyrites... ..	20	A xv
Canadian production, 1886-87... ..	243	R C
For chemical industry	22	A xvi
oil refining	161, 162	R C
Iron pyrites for. <i>See</i> Iron pyrites.		
Manufacture of, notes on	375	R C
.....	193-196	A xvi
Uses of, notes by Fraleck	196-200	A xvi
Works for, Brockville tp.	152	A xvi
Capelton, Que.....	177	R C
.....	153	A xvi
Hungerford tp....	79, 80	A xvi
Sault Ste. Marie... ..	62, 63	x
Sudbury, suggested..	180	R C
United States, list of.	184	A xvi

Sulphuretted hydrogen.

	Page.	Vol.
Findlay, Ohio.....	120	i
Heating power of	480	R C
Tilbury tp., in gas	99	A xvi
"Sultana" s.s.	48	vii
Sultana bay, L. OF THE WOODS,		
R.R.D.		
Photo.	128, 129	v
gold mine, SULTANA ISLAND,		
L. OF THE WOODS.		
Accidents at.....	235-238	v
.....	42, 43	x
Chlorination works at.....	277	viii
Closed down, 1906.....	60	A xvi
Depth of, 1895.....	4	v
1899.....	35	ix
Evidence <i>re</i> before R.C. 64, 118,	446	R C
Exhibit of, at Buffalo	85	xi
Fire at	5	v
Gneiss in, porphyritic	116	vi
Map showing position of.....	15	iii
Mill erected at, 1892.	235	ii
Minor refs. to.....	14	xii
.....	34	A xiv
Notes on, by Blue.....	16-19	iii
Merritt.....	109	R C
1891.....	223	i
1892.....	231	ii
1893... ..	225-227	iii
1894.....	68, 225	iv
1895	177-180	v
1896	7	Bull. i
93-96, 117, 248-251		vi
1897. 28, 29, 45-48, 114, 115		vii
1898.....	43, 50-52	viii
1899.....	38-42	ix
1900.....	69-71, 90, 91	x
1901.....	80, 251, 252	xi
1902 (idle).....	96	xii
1903.....	59, 60	A xiii
1904.....	47	A xiv
1905.....	57, 58	A xv
Operating, 1895	4	v
1905.....	4, 47	A xv
1906	6	A xvi
Photos of....	18	iii
.....	160, 161	v
.....	112, 113	vi
.....	16, 96	vii
32, 33, 80, 81		ix
.....	56	A xv
Prospects of, 1892	192	ii
Quartz of, character....	3, 36, 37, 68	iv
.....	50	v
Re-opening of, expected.....	43	A xvi
Road to, built by Govt.....	9	vi
Section of.....	39	ix
Veins of, character.....	109	R C
Gold Mine, Ltd.		
Capital and date of charter	37	A xiii
Purchase by, of Sultana mine...	59	A xiii
island, L. OF THE WOODS.		
Gold on	xvi	R C
mining.....	26	R C
evidence before R.C.		
.....	64, 118, 446	R C
notes by Blue.....	13-19	iii
Merritt	109	R C
<i>See also</i> Sultana g.m.		

	Page.	Vol.		Page.	Vol.
Sultana island. — <i>Con.</i>			Sun Portland Cement Co. — <i>Con.</i>		
Ore bodies of.....	123, 124	vi	Operating.— <i>Con.</i>		
Rocks on, petrography.....	155	vii	1905.....	17	A xv
porphyritic granite ..	116	vi	1906.....	20	A xvi
54	viii		Plant of.....	33	xi
petrography....	121	vi	photo of laboratory.....	160	A xiv
(JUNIOR) gold mine , OPPOSITE			Sunbeam (AL 282) gold mine , IS-		
SULTANA ISLAND, L. OF THE			LAND FALLS, SEINE RIVER.		
WOODS.			Depth of, 1899.....	35	ix
Acquired by Dominion Gold Mg.			Notes on, 1898.....	92	viii
and Red. Co.....	174	v	1899.....	80	ix
Prospecting on, 1898.....	37	vii	1900.....	103	x
Working, 1892.....	231	ii	1901.....	239, 240	xi
nickel mine , DRURY AND			1902.....	81, 82	xii
TRILL TPS., ALG.			1903.....	71	A xiii
Deposits of, contrasted with those			1904.....	3, 41, 42, 56	A xiv
of Victoria mine.....	27	C xiv	Photo of.....	272, 273	xi
Minor ref to.....	36	x	Prospects of, 1903.....	5	A xiii
Notes on, by Coleman.....	195, 196	A xiii	Shut down, 1900.....	103	x
22, 23	C xiv		1905.....	50	A xv
Rocks in and near :—			Sunderland, DURHAM CO., ENG.		
conglomerate.....	80	C xiv	Apatite deposits to, 1884-5.....	443	R C
gossan.....	23	C xiv	Sundridge, STRONG TP., P.S.D.		
nickel-eruptive.....	23, 63	C xiv	Artesian wells in.....	54	i
petrography... ..	209	A xiii	Sunnel, Victor	35	A xvi
norite.....	214	A xiii	Sunrise Mining Co.		
112	C xiv		Capital and date of charter.....	9	xii
Ophir Mining Co.			Work by, 1902.....	65	xii
Capital and date of charter.....	9	x	1903.....	47	A xiii
Summer Mining classes.			Sunshine lake, NEAR MANITOU LAKE,		
Organised.....	6	v	R.R. D.....	123	vii
Report on, for 1894.....	216-221	iv	siding, CONMEE TP., TH. B. D.	130	xi
1895.....	215-220	v	Supe, O.	106	vii
1895.....	197, 198	vi	105	viii	
1897.....	260, 261	vii	Superior copper mine, GAUDETTE		
1901.....	61-69	xi	TP., ALG.		
1902.....	54-61	xii	Accident at.....	57	A xiii
1903.....	52-57	A xiii	Character of deposits.....	11	A xiv
1904.....	37-42	A xiv	12	A xv	
1905.....	39-46	A xv	Concentrating plant at, proposed.	16	A xvi
1906.....	49-54	A xvi	Minor ref. to.....	58	A xiii
Summers, J. O.	268	xi	Notes on, 1901.....	274, 275	xi
55	A xiii		1902.....	100	xii
32, 67	A xv		1903.....	82	A xiii
Summit creek, KOOTENAY LAKE,			1904.....	41, 62	A xiv
B.C.			1905.....	68, 69	A xv
Cyanite on.....	237	vii	1906.....	15, 72	A xvi
lake, ANZHEKUMMING LAKE,			Photo of.....	80, 81	A xiii
R.R.D.			Prospecting in, with Govt. drill.	43, 45	A xiii
Gold prospecting and mining on.	85	vi	Copper Co.		
68	A xiii		Capital and date of charter.....	11	xi
lake, MICHIPICOTEN DIV., ALG.			Prospecting by, with Govt. drill.	43, 45	A xiii
Esker on.....	206	A xv	Work by, 1901.....	274, 275	xi
Minor ref. to.....	179	A xv	1906.....	16, 72	A xvi
Morainic deposits near.....	192	A xv	See also Superior cop-		
lake, OMBABIKA RIVER.	14	R C	per mine.		
Lake Gold Mining Co.			Gold and Copper Co.	105	viii
Capital and date of charter.....	9	xii	118	ix	
Work by, 1902.....	91, 92	xii	Portland Cement Co.		
1903.....	68, 69	A xiii	Capital and date of charter.....	9	xii
1906.....	43, 58	A xvi	Clay and marl used by, analysis.	183	A xiv
Sun Portland Cement Co.			Notes on, and photo of plant.	160-62	A xiv
Analysis of clay and marl used			Plant of, building.....	17	A xv
by.....	183	A xiv	20	A xvi	
Capital and date of charter.....	9	x	Silver Mg. and Land Co.		
Operating, 1902 (notes)....	31, 32, 35	xii	Capital and date of charter.....	12	vii
17	B xiii		Superphosphate. See Apatite.		
1903.....	17	A xiii			
1904 (notes)....	159, 160	A xiv			

	Page.	Vol.		Page.	Vol.
Superstition. <i>See</i> Indian legends.			Swansea, WALES.—Con.		
Suplee, Henry Harrison			Smelting works at.— <i>Con.</i>		
Notes by, on acetylene gas....	28, 29	vi	copper, methods.....	403	R C
Surface geology.			Wellington mines. 101, 404		R C
In connexion with artesian			galena, Echo lake.....	147	R C
wells.....	52-54	i	notes on.....	177, 178	c xiv
<i>See also</i> Glaciation.			Sudbury ores.....	189	iii
Surgical instruments.				72	A xiv
Canadian imports of, 1881-87....	253	R C	Swansea, YORK TP., YORK CO.		
Surprise lake, SIBLEY TP., TH.B.D.			Sewer pipe works at.....	19	A xvi
Photos of.....	128, 129	vi	notes and photo.....	117, 118	B xv
Sussex co., N. Y.			Swanson, George		
Corundum in.....	241	viii	Gold mine of, Aubrey tp.....	95	x
street, OTTAWA.			R.....	75	vi
Mica trimming works in.....	91	A xvi	Swart, W. G.	341	xii
Sutherland, Allen			Swede Boys gold mine, MANITOU		
Gas on farm of, Harwich tp.....	125	i	LAKE, R.R.D.		
H.....	13	A xiv	<i>See also</i> Original Swede Boys		
Hugh.....	118	R C	Prosp'g Co.		
Hon. James.....	22	x	Depth of, 1899.....	34	ix
J. G.....	118	ix	Notes on, 1895.....	163	v
	144	x	1897.....	82, 83, 119, 123	vii
	75	xi	1898.....	273	viii
			1899.....	74, 75	ix
Wallace			Rocks in.....	263	viii
Iron smelting by, Lyndhurst,			Sweden.		
1813.....	319	R C	"Balance of trade" against,		
Sutton, E. S. B.	105	viii	1868-86.....	397	R C
	49	A xiii	Charcoal making in, method of.	26	ii
bay, L. TIMISKAMING.			Divining rod from, for gold....	7	Bull. i
Limestone near.....	87	B xiii		108	vi
SV 103=110 gold locs. <i>See</i> John			Iron and iron making in.....	328	xii
Sykes Syn.			export to Gt. Britain.....	xx	R C
128, 129, 131, 166 gold locs.			notes by Bawden.....	470, 471	R C
<i>See</i> Oxford mine.			quality.....	33	ii
258 gold loc. <i>See</i> Tabor gold			smelting.....	325, 339, 390, 393, 396	R C
mine.			statistics, 1886-90.....	85	ii
Svarto island, SWEDEN.			1887.....	224	R C
Iron mines of, Ball-Norton sep-			notes.....	342	R C
arator used at.....	327, 328	xii	Mining laws of.....	299	R C
Swallow.			school in. <i>See</i> Stockholm.		
Abitibi dist., Nip.....	189	xii	Nickel in, discovery.....	163	c xiv
Cliff			Peat in, cost of production....	195	ii
Abitibi dist., Nip.....	126	A xiii	industry, notes.....	218, 219	ii
river, L. SUPERIOR.			moss-litter.....	216	ii
Beaches on, level of.....	154, 155	viii		139, 140	iii
Conglomerate on: falls on.....	142	viii	tests on plant for.....	34	A xiii
Keweenaw series on.....	168	viii	Gold Mining Co.		
Swallowtail, yellow			Capital and date of charter.....	12	vii
Abitibi dist.....	129	A xiv	Work by, 1896....	48	vi
Swamps. <i>See</i> Muskeg.			Swedish Export Association	470	R C
Swampy Cree Indians.			Sweeney, J. M.	66	A xiii
James bay.....	134	iv	Sweeney, Mrs. G. A.	42	viii
=ground portage, MISSINAIBI			Roy.....	42, 94,	viii
RIVER, ALG.....	195	viii		79	ix
river, PISHKANOGAMA LAKE.			Sweet briar.		
<i>See</i> Muskego river.			Abitibi dist.....	253	A xiv
Swan lake, WHITE-CLAY RIVER,			gale.		
ABITIBI RIVER.			Abitibi dist.....	218	A xiv
Notes on, by Bolton.....	183, 184	xii	Grass hills, MONTANA, U.S.		
Swank, James W.			Eruptive masses of.....	157	vii
Notes by, on Bessemer process..	365	R C	Sweetzer.	32	A xvi
steel industry of			Swego river, OTTAWA RIVER.		
Gt. Britain.....	366	R C	Limestone near mouth of.....	104	B xiii
Swansea, WALES.			Swell bay, RAINY LAKE, R.R.D.		
Anthracite of, analysis.....	5	Bull. ii	Rocks on.....	78	iv
Smelting works at.....	67	R C	petrography.....	93	iv
advantageous conditions.....	376	R C	Swenson—?	60	xii
Cobalt ores.....	11	A xvi	Swick, J.	144	x

	Page.	Vol.
Swift, H. S.	118	ix
Swift, James P. H.	178	iii
Swinney, Alfred J. G.	144	x
	264	v
	60	vi
	90	vii
Switzerland.		
Nickel coinage in.....	161	ii
	164	c xiv
plating in, process of.....	158	ii
Sydenham, LOUGHBOROUGH TP., FRON-		
TENAC CO.		
Apatite at. <i>See</i> Coe apatite mine.		
Mica at.....	203	ix
amber.....	150	R C
mining, 1891.....	244, 245	i
1892.....	249	ii
1893.....	192, 193	iii
1895.....	276-278	v
1906.....	23	A xvi
works at.....	125	x
	28, 291	xi
	106	A xv
Strontium at.....	60	B xiii
Waterpower at.....	244	i
Mica and Mg. Co.		
Capital and date of charter.....	12	vii
Mining by, near Sydenham.....	244	i
	249	ii
river, GREY CO.		
Clinton formation on.....	48	B xiii
Niagara formation on, quarried .	49	B xiii
Oil on, boring for.....	5	v
tp., GREY CO.		
Apatite in, evidence before Roy.		
Com.....	176, 177	R C
Brick-clay and cement in. <i>See</i>		
Owen Sound.		
Clinton formation in.....	48	B xiii
<i>Pentamerus oblongus</i> in.....	49	B xiii
Sydere tp., ALG.		
Timber and soil in.....	142, 143	A xv
Sydney, CAPE BRETON CO., N.S.		
Cost of iron making at.....	34	x
Sulphuric acid made at.....	196, 200	A xvi
tp., HASTINGS CO.		
Iroquois beach in. <i>See</i> Frank-		
ford.		
Sydvaranger, FINAMACKEN, NOR-		
WAY.		
Schists of.....	306	A xvi
Syene, EGYPT.		
Syenite called after.....	543	R C
Syenite.		
Abitibi dist., petrography.....	117, 118	A xiii
Astron bay, L. of the Woods,		
petrography.....	146	vii
Blanche river.....	174	xii
Burma, corundum-bearing.....	231	viii
Caribou lake, R. R. d.....	52	v
Description of.....	543	R C
Exhibited at Pan-American		
Exhbtn.....	87	xi
World's Fair..	186	ii
Hastings corundum dist.....	210-212	vii
	206, 209-224	viii
notes by Miller.....	226-230	vii
photos.....	216-217	viii
with magnetite.....	Fac ng	vii
	222	

	Page.	Vol.
Syenite.—<i>Con.</i>		
Kingston.....	74	R C
Lake Superior, N. shore.....	129	vi
Jackfish bay, petrography.....	103, 104	v
Thunder bay.....	28	R C
Michipicoten div.....	7 Bull.	iii
Mississagi river.....	163	xii
Montreal river, W. branch.....	81	i
Moss tp.....	25	R C
Nomenclature.....	543	R C
Notes on, by Miller.....	234	vi
Ottawa river, above Ottawa.....	104	B xiii
Port Coldwell, paper by Cole-		
man.....	208-213	xi
petrography.....	148	vii
Sudbury dist.....	276	xii
Timiskaming lake.....	41	B xiv
gneiss.		
Manitou lake.....	64	iv
nepheline		
<i>See also</i> Syenite.		
Hastings corundum dist.		
	210, 211, 222, 223	vii
	214-218	viii
analysis.....	207	viii
Bancroft (near).....	106, 107	A xv
boulders.....	224	vii
discovery.....	228	vii
Dungannon tp.....	198	vi
notes by Adams.....	245	viii
photo.....	Facing 222	vii
microphoto.....	216, 217	viii
Koshkabogamog lake.....	193	xi
Lake Superior.....	208-210	xi
Mistaken for feldspar.....	211	vii
lime.....	210	vii
Paper, by Coleman, on corundi-		
ferous.....	250-253	viii
Sturgeon lake, Th. B. d.....	87, 104	xii
notes by Miller.....	105	xii
Ural mts.....	232	viii
pegmatite.		
Methuen tp.....	207	viii
Syenite lake, NEAR KABENUNG LAKE,		
MICHIPICOTEN DIV., ALG.		
Rocks near.....	306	A xiv
Sykes, John <i>See</i> John Sykes gold		
mine.		
Sylvan Oil Co.		
Capital and date of charter.....	13	vii
Sylvania, LUCAS CO., OHIO.		
Ci cinnati arch near.....	116	i
Sylvanite (GRAPHIC TELLURIUM).		
Determination of.....	204	vi
Huronian mine, MOES tp.....	25	R C
	38, 40	iv
	77	v
	210	ix
exhibited at Chicago.....	191	ii
Lake Superior.....	194	ii
Symes, Capt. James Bowie.	138	viii
Symmes, H. C.	58	ix
H. D.	38, 40, 103	x
	86	xii
Synclines.		
French river.....	67	i
L. Superior, Keweenawan for-		
mation.....	76	iii

	Page.	Vol.
Synclines.—Con.		
Panache lake.....	73	i
St. Clair river, east of.....	54	i
Syndicate Mining Co.		
Capital and date of charter.....	24 A	xiii
No. 1, Ltd.		
Capital and date of charter.....	9	xii
Syracuse, ONONDAGA CO., N. Y.		
Bricks from, tests on.....	129, 130	iii
Salt at.....	14	i
Sulphuric acid works at.....	184, 191 A	xvi
<i>Syringopara hisingeri.</i>		
Anderdon tp.....	125	xi
Cayuga N. tp.....	146	xii
Hagersville.....	145	xii
Kwataboahagan river.....	181 A	xiii
Villanova and Rockford.....	143	xii
Woodstock.....	148	xii
“ <i>maclurei.</i>		
Port Colborne (near).....	35	xi
“ <i>nobilis.</i>		
Kwataboahagan river.....	181 A	xiii
Villanova.....	143	xii
“ <i>perelegans.</i>		
Anderdon tp.....	125	xi
Cayuga N. tp.....	146	xii
Hagersville.....	145	xii
Kwataboahagan river.....	181 A	xiii
Port Colborne (near).....	35	xi
Villanova.....	143	xii
Walpole tp.....	143	xii
<i>Syringostroma.</i>		
L. Superior, north shore.....	156	viii
“ <i>aurora.</i>		
Kwataboahagan river.....	182 A	xiii
photos.....	192 A	xiii
“ <i>densum.</i>		
Kwataboahagan river.....	183 A	xiii
“ <i>restigouchense.</i>		
Kwataboahagan river.....	182 A	xiii
Systems, geological		
Definition of term.....	3	R C
Order of.....	543	R C
T 96 silver loc. See Porcupine mine.		
243 and 244 copper claims,		
NIPIGON LAKE, TH. B. D.		
Notes on, by Coleman.....	117 A	xvi
<i>Tabanus affinis. See Bull dog tabanus.</i>		
Tabor, James See Tabor and Stevenson claim.		
and Stevenson claim, THE		
NEW KLONDIKE, R. R. D.		
Notes on, 1898.....	42, 75, 276	viii
Tabular spar. See Wollastonite.		
Tache, Rev. Archbishop.....	162	v
Tache, R. R. D.		
Gold near.....	26	R C
mining.....	179	vii
See also New Klondike.		
Rocks at and near.....	123, 124, 169	vii
Gold Mg. Co.		
Capital and date of charter.....	13	vii
Taconian series.		
Hastings co.....	169	i

Taconyte.

Animikie iron range.....	310	xii
164, 166, 167 A	xv	
Mesabi iron range.....	258 A	xiv

Talbot, H. E.....	118	ix
144	x	
75	xi	

Joseph.....	25, 26	ix
K. H.....	118	ix
144	x	

(OR MOON) lake, MICHIGAN COTEN DIV.

Iron ore in, no chance of.....	173	xi
mining near. See Helen mine.		

Josephine mine.

Rise from, to Sayer lake.....	153	xi
Rocks on and near.....	159, 167, 172	xi

Oil and Gas Co.

Capital and date of charter.....	9	xii
Work by, in Elgin co.....	108 A	xiv

river, LAKE SIMCOE.

Trenton limestone on.....	89 B	xiii
road, ESSEX CO.		

Oil on.....	90, 116, 117 A	xiv
boring for.....	112 A	xv

Talc.

See also Steatite.

Analysis, average.....	90	iii
210	ix	
Associated with apatite.....	440, 442	R C
Blythfield tp.....	210	ix
Canada, production, 1886-87.....	243	R C
Clarendon tp.....	210	ix
Determination of.....	205, 226	vi
Exhibit of, at World's Fair.....	189	ii
Gouverneur, N. Y.....	100-102	iii
Hardness of.....	448, 535	R C
200	vi	
214	vii	
Hastings co., Elzevir tp....	9, 99, 100	iii
Grimsthorpe tp....	210	ix
205	xi	
Madoc (near).....	210	ix
205	xi	
mining.....	24	x
92 A	xiii	
26 A	xvi	

See also Henderson m.

production, 1904... ..	23 A	xiv
Kaladar tp.....	99, 100	iii
210	ix	
Nipissing dist., mining.....	278	v
Pipestone lake, for pipes.....	46, 85	iv
Rock Islet bay, Watten tp.....	85	iv
Statistics of, 1899.....	13	ix
1900.....	11, 12	x
1901.... .	13, 28	xi
1902.....	12, 13, 27	xii
1903.....	3, 13 A	xiii
1904.....	1, 3, 87 A	xiv
1905....	1, 4 A	xv

Talcose.

Definition of.....	543	R C
--------------------	-----	-----

Talcose granite. See Protogene.**slates.**

Huronian, gold in.....	451	R C
------------------------	-----	-----

	Page.	Vol.
Tallman, William & Son.		
Brick works of, near Beamsville.	102	i
Tallow.		
Heating power of	481	R C
Talon chute, MATTAWA RIVER, NIP.		
Rocks near	81	B xiii
lake, MATTAWA RIVER, NIP.		
Crystalline limestone on	68	i
	81	B xiii
Talon lake, NEAR L. NIPIGON, TH.		
B. D.		
Cedar near	138	A xvi
Rocks near	141	A xvi
Tamar river, CORNWALL, ENG.		
Arsenic mining on	60, 61	iii
Tamarac copper mine, L. SUPERIOR.		
Native copper in	36	R C
Tamarack (LARCH OR HACHMATAK).		
Abitibi dist.	109, 126	A xiii
196-205, 214, 217, 221, 223, 227,		
232-236, 242, 250, 251	A xiv	
Abitibi river and tribs. 178, 186,	189	viii
Black river.	186	xii
dead	125	A xv
Night-hawk lake.	176	viii
Porcupine Lake reg	176	viii
	122, 123	A xiii
swamps.	246	A xiv
Big river, Opasatika river.	256	v
Delbert lake.	105, 106	A xiii
Hinterland, The.	121	iv
Kenogami lake (near), Blanche		
river	177	xii
Kenogami valley. Th. B. d.	112	iv
L. Huron slope	170	vi
Mattagami valley.	123	A xv
dead.	119, 120, 127, 136, 139,	
	140, 143	A xv
through saw-fly.	189-193	A xiv
Michipicoten div.	13	Bull. iii
	189, 190, 206	vii
	137, 140, 202	viii
	295	A xiv
Magpie river.	200	vii
Mainainse pen.	72	iii
Montreal river.	200	viii
Missinaibi river.	139	ix
Mississagi River dist.	172	xii
Moose River basin ...	176	A xiii
Moss tp.	79	v
Nipigon Lake dist.	111, 112	iv
	212	x
	138	A xvi
Niven's base line, Alg., south of.	137-141	ix
Oba lake, Alg.	198	vii
Port Arthur dist.	114	ii
Rainy River dist.	65	R C
	180-181	vii
Rainy Lake reg.	95	iv
Rainy river.	117	iv
Seine River region.	150	v
Sabawon lake.	142	v
Wabigoon lake (near).	171	vii
Spanish river.	125, 126	ix
Timagami Lake region .	58	R C
Tamboff prov., RUSSIA.		
Peat in.	217	ii

	Page.	Vol.
Tam O' Shanter nickel mine, SNIDER		
TP.		
Nickel-bearing eruptive in.	37, 40	iv
Notes on, 1893.	190	iii
<i>Tamias striatus.</i>		
Ottawa.	224	x
Tamworth, SHEFFIELD TP., ADDING-		
TON CO.		
Brick-yard at, notes.	56	B xv
Contact, Laurentian-Silurian.	27	B xiii
Iron ore in, at World's Fair.	82	ii
hematite	133	R C
mining	130	R C
Tanks.		
For oil preserving, notes by		
Noble	165	R C
Tanning.		
Lime used in.	3, 13	B xiii
Tantalic acid.		
Lyndoch tp., in a columbite min-		
eral	236	vii
Tar.		
As a by-product of charcoal		
burning	481	R C
As residue of petroleum.	155-158	R C
Occurrences of, in Canada.	543	R C
Price of, 1890.	164	R C
pt., GASPÉ CO., QUE.		
Oil at	93	A xiv
<i>Taraxacum officinale.</i>		
Abitibi Lake dist.	242	A xiv
Mattagami valley.	150	A xv
Tarentorus Mining Co.		
Capital and date of charter.	30	A xvi
tp., ALG.		
Terraces in	153	viii
Wash-out south of.	126	viii
Tariffs.		
Iron, Conmee's views	113	ii
evidence before R. C.	390-400	R C
from U. S.	18	A xvi
Mining affected by.	217	R C
machinery, evil effects.	196	R C
Moose Factory, amounts collected.	135	iv
Nickel, into U. S., notes.	42-46	vi
	28	vii
Oil, removal of.	24	A xvi
Quarrying and salt industry		
affected by.	217	R C
Uncertainty of prohibitive.	105	ij
Tarr, E. J.	90	xi
Prof. Ralph S.		
Notes by, on anthracite of Rhode		
island.	165	vi
Tarshish (BIBLICAL).		
Probably Tharsis copper mine,		
Spain.	372	R C
Tarsus Copper and Sulphur Co.		
Work by, in May tp.	68	A xv
Tasko, Matti.	50, 57	xi
Tasmania.		
Mineral lands in, ownership of. .	44	i
Mining laws of.	295	R C
Royalties in	45	i
Gold Mining Co.	45	i
Tatatichapika lake, TATATICHAPIKA		
RIVER, ALG.	128	ix
river, MATTAGAMI RIVER, ALG.	127, 128	ix

	Page.	Vol.		Page.	Vol.
Tate, James	56, 57	xi	Taylor Bros.		
Taulibi.			Brick of, Don valley.....	105	i
Abitibi dist.....	253 A	xiv	126, 127	•	iii
Tawney, James A.	42	vi	tests on .	130	iii
Taws and Hartman.			copper mine, ANDERDON TP.,		
Data by, <i>re</i> cost of iron smelting.	388	R C	ALG.		
in Snowdon tp..	335	R C	Notes on, 1901.....	272, 273	xi
Taxidermy.			1902.....	100	xii
Arsenic used in.....	114, 118	xi	1903.....	82 A	xiii
<i>Tarus canadensis.</i>			Copper Mines Co.		
Abitibi Lake dist.....	242 A	xiv	See also last ref.		
Tay river, LANARK CO.			Capital and date of charter.....	11	xi
Limestone belt crossing	46		Directors of.....	272	xi
tp., SIMCOE CO.			Road making by.....	81 A	xiii
Brick-yard in. See Penetanguishene.			kiln.		
Limestone in, analysis.....	110 B	xiii	Notes on, by J. Bawden.....	478	R C
Taylor, Charles			tp., NIP.		
Evidence by, before R. C. <i>re</i> :—			Explored by Kay.....	109 A	xiii
actinolite. Hastings co....	52, 86	R C	Tchiatang (INDIAN).	35	R C
Consolidated gold mine.....	i11	R C	Teare, Ambrose	63	xii
pyrites, Hungerford tp.....	133	R C	J. H.	118	ix
D.			114	x	
Ref. to journey by, Timiskaming			75	xi	
dist.....	41 B	xiv	Teasdale, Thomas		
E. D.	33	xii	Gypsum mine of, Grand river ..	110	i
19 B	xiii		242		
E. J.	106	vii	198	iii	
F. B.			flooded.....	251	iv
Notes by, on Nipissing beach... 193	vii		idle.....	283	v
Ref. to map by, of Brockville... 221	x		Technical instruction.		
surveys by, Pigeon River			Need of, in mining industry. 415, 416	R C	
dist.. 151, 152, 157	viii		Paper on, 1890.....	212-217	i
175	ix		Report on, by Royal Com....	491-521	R C
Francis D.	232, 233	iv	United States.....	502-509	R C
C. H., and R.	75	xi	See also Mining schools.		
67	xii		Tecumseh Copper Co.		
48, 49 A	xiii		Work by, Goulais-bay.....	101	xii
H. J.	103	x	salt well, GODERICH.		
149	xi		Notes on, by McEwan.....	54	R C
84	xii		tp., SIMCOE CO.		
H. P. ...	272	xi	Iroquois beach in. See Cooks-		
49 A	xiii		town.		
H. Prentiss	23	xii	Teddy (INDIAN). See Thaddy.		
J.			Tedford, William	89	viii
Manager, Taylor Mines Co	272	xi	78	ix	
Pottery maker.....	29	xii	103	x	
118 B	xv		Teefy tp., NIP.		
J. D.			Minor ref.....	228 A	xiv
Gold prospecting by, Meteor lake. 158	x		Rocks.....	206 A	xiv
John			Sand in, for building material ..	207 A	xiv
Treasurer, Dunnville Natural Gas			Soil and timber in. 204, 230, 231,		
Co.....	137	i	244, 246 A	xiv	
John			187, 201 A	xiv	
Extract from report by, on Bruce			Waterpower in	208 A	xiv
Mines	97	R C	Teeswater river, BRUCE CO.		
See also Taylor & Sons, John			Limestone on.....	35 B	xiii
R. H.			Teggau (OR CLEARWATER) lake,		
President, Taylor Copper mines			R. R. D.		
Co.....	272	xi	Rocks on and near:—		
100	xii		Couchiching.....	82	iv
82 A	xiii		Keewatin	60, 61	iv
69 A	xiv		microphoto	88	iv
resigned			serpentine.....	50, 70, 76, 93	iv
and Sons, John			209	ix	
Managers of Bruce and Wellington			Trout in.....	44	iv
mines.....	96, 101	R C	Teil, FRANCE. See Thiel.		
and Terry.			Teitz quarry, WALPOLE TP.		
Iron prospecting by, Hutton tp.. 298	xii		Fossiliferous limestone in.....	143	xii
			54 B	xiii	

	Page.	Vol.
<i>Telea polyphemus</i> . See Polyphemus moth.		
"Telegram" ss.	66-69	iii
	241	v
	101	vii
	120, 148, 203	viii
Telgmann, Otto E.		
Iron prospecting by, Ground-log		
River dist.	315, 316	xii
<i>Tellina granlandica</i> .		
Abitibi river.	189	viii
James bay	143 A	xiii
Telluride of gold. See Sylvanite.		
silver. See Hesseite.		
Tellurium.		
Huronian mine, Moss tp.	38	iv
In hessite and sylvanite	210	ix
graphic. See Sylvanite.		
Temagami Iron Mg. Co.		
Capital and date of charter	30 A	xvi
lake. See Timagami lake.		
Milling and Mining Co.		
Exhibits of, at Buffalo	25 A	xv
Work by, 1906	74 A	xvi
Silver Mg. Co.		
Capital and date of charter	30 A	xvi
Temiskaming. See Timiskaming.		
and Hudson Bay Mg. Co.		
Capital and date of charter	37 A	xiii
Dividends paid by.	12, 13 A	xvi
Prospecting by, Cobalt dist.	79 A	xv
Shipping, 1905	15 B	xiv
1906	8 A	xvi
Temiscamingue Lithographic		
Stone and Mg. Co.	7	vi
	13	vii
Reduction Works, Ltd.		
Exhibits of, at Buffalo.	25 A	xv
Temiskaming and Northern Ont.		
Ry. See Timiskaming, etc.		
Hematite Iron Co.		
Capital and date of charter.	30 A	xvi
lake. See Timiskaming lake.		
Mg. Co.		
Capital and date of charter	30 A	xvi
	26 A	xv
Work by, 1905.	86 A	xv
Sterling Mg. Co.		
Capital and date of charter	30 A	xvi
Tempering.		
Clay	43 B	xv
Templeton tp., OTTAWA CO., QUE.		
Apatite in.	436, 442	R C
mode of occurrence.	178, 440	R C
Asbestos from, analysis	97	iii
Iron ore in	51	ii
Quarrying in, marble	102 B	xiii
serpentine.	74, 84	R C
<i>Tenebrio calculeusis</i> .		
Greens creek, Ottawa	224	x
Tenedos island, NEAR THE DARDANELLES, ASIA MINOR.	167	i
Tenmile lake, UPPER WANAPITEI RIVER. See Long lake.		
Tennant, Sir Charles	176 C	xiv
George	38	ix
Leslie		
Abitibi soils determined by	130 A	xiii

	Page.	Vol.
Tennantite.		
Barrie tp.	210	ix
Tennessee, U. S.		
Appalachian system from, to		
Gaspé pt., Que.	95 A	xiv
Marble of	236	R C
character	64 B	ii
Natural gas in.	115, 145	i
Tenney farm, NEAR MADOC, HASTINGS CO.		
Franklinite on	198	ix
Tennycap, HANTS CO., N. S.		
Pyrolusite at		
Tennyson lake, W. OF PORCUPINE LAKE, ALG.		
Beaver dams near.	127 A	xiii
Trees on	124 A	xiii
tp., ALG.	63 A	xiv
Tenorite. See Melanconite.		
Tent lake, NIP.	112, 115 A	xiii
Teppet, James	26	viii
Teresa lake, S. OF MINNITAKI LAKE.		
Gold prospecting on.	64	ix
Terra Cotta, CHINGUACOUSY TP., PEEL CO.		
Medina clay at, for bricks, etc.	128	iii
Terra-cotta.		
Definition of	543	R C
Industry of, 1890, paper on.	101-105	i
1906, notes on.	120 B	xv
Milton, works	66 B	xv
Napanee, works, notes by Rath-		
bun.	84, 85	R C
Statistics of, 1891	6	i
1892	11	ii
1893	7, 10	iii
1894	11, 18	iv
1895.	11, 12	v
1896.	12, 13	vi
1897	15, 17	vii
1898	11, 12	viii
1899	13	ix
1900.	11, 12, 14	x
1901	12, 30	xi
1902.	12, 13, 27	xii
1903	2, 13 A	xiii
Terra Cotta Pressed Brick Co.		
Capital and date of charter	30 A	xvi
Sienna. See Ochre.		
Terrace cove, L. SUPERIOR.		
Molybdenite on.	205	ix
Terraces OR Beaches.		
See also Iroquois beach.		
Definition of	543	R C
Eastern Ontario, report by Cole-		
man, on marine	215-227	x
Ganonoque	221	x
Garden River	122, 123	viii
photo	136, 137	viii
Grey co., notes by Coleman.	176, 177	ix
Hamilton	29 B	xv
brick-clay from	106 B	xv
Lake Huron, notes by Coleman.		
151, 152	viii	
St. Joseph island.	199 A	xv
Sault Ste. Marie.	126	viii

	Page.	Vol.		Page.	Vol.
Terraces OR Beaches.—Con.			Tetrahedrite.—Con.		
Lake Superior, north shore. 112,			Cobalt dist.	xi A	xiii
136, 137	vi		analysis	100 A	xiii
134, 147, 150-154	viii			22 B	xiv
	175	ix	Coleman tp.	12, 13 B	xiv
	288 A	xiv	Determination of	204	vi
Animikie iron range	156 A	xv	Hardness of	202	vi
Mica bay	172	ii	Joachimsthal, Bohemia	61 B	xiv
Photos	204, 205	vii	Madoc tp.	210	ix
Thunder bay	109	vi	Empire mine.	38	iv
Michipicoten island	143	viii	Notes by Goodman	208	vi
Michipicoten div.	193	vii	Port Arthur dist.	55, 58 B	xiv
	211	x	Silver Islet mine	210	ix
	184	xi	Specific gravity of	202	vi
	194 A	xv			
Agawa river	131	viii	Tettix.		
Dog river (near)	133	viii	Abitibi dist.	129 A	xiii
Michipicoten river, photo.	196 A	xv	Tetts, Benjamin. See Tetts mica		
Montreal river	173	ix	mine.		
Mattagami river	181	x	John See Tetts mica mine.		
Minnesota	202	v	mica mine, BIRCH LAKE,		
Moose River basin	147 A	xiii	FRONTENAC CO.	135	x
Nipigon river	107, 135 A	xvi	"Texas" ss.		
Old Woman river (near), alti-			Armour of	149	iii
tude	194 A	xv	Texas, U.S.		
Pukaskwa river	137	viii	Iron ore in	101-103	ii
St. Lawrence river,	227	x	Kaolin in	86	R C
Spanish river	185	x	Oil in, affects prices	41	xi
Sturgeon river, Th. B. d.	137 A	xvi	Thaddy (OR TEDDY).		
Sudbury dist., altitude	211	x	Gold discovery by, Michipicoten		
	103, 104 C	xiv	div	184, 194	vii
notes by Coleman.	106 C	xiv	Thames river, ONT.		
Thedford (near)	156	xii	Limestone quarries on	92, 96 B	xiii
Timiskaming lake. notes by			Salt near, thickness of	178	i
Coleman	177, 178	ix	Springs along	55	i
Trenton (near) altitude	222	x	Thamesville, CAMDEN TP., KENT CO.		
photo	224, 225	x	Brick-yard at, notes	73 B	xv
Turtle river	127	vii	Oil near	15	viii
Warren lake (glacial), altitude ..	103 C	xiv		42	xii
Windigoostigwan lake	137	v	log of well	110 A	xiv
			production, 1906	24 A	xvi
Terre Haute.			Tharsis copper mine, SPAIN.		
Mining school at	512	R C	Notes on	372	R C
Natural gas in	152	R C	Thaulow, J. G.		
Terrebonne co., QUE.			Acknowledgments to	191	xii
Grenville series in	11	R C	Notes by, on peat experiments		
Terrill, A. G.	62 A	xiv	at Dusseldorf ..	220	xii
Cobalt Mining Co.			stoves	227	xii
Capital and date of charter	30 A	xvi	Ref. to report by, on peat in		
Terrion, Peter	47, 50	x	Norway	196	xii
Terry, D. H.			Thayer, E. H.	108	iii
Iron ore prospecting, Hutton tp.	186	x	"Theano" s.s.		
Tertiary.			Photo of, discharging iron ore at		
Systems in, list of	543	R C	Midland	17	x
Tesla, Nikola			Thedford, BOSANQUET TP., LAMBTON		
On water-power	251, 253	vii	co.		
Tests for minerals.			Brick-yard at	57 B	xv
Notes on, by Copp	449	R C	notes	75 B	xv
Tetapaga lake, TIMAGAMI DIST., NIP.			Clay at, boulder, photo	11 B	xv
Iron ore near	201	x	Erie	69, 70 B	xiii
Jaspilite near	167	x	Fossils from, and vicinity	154-156	xii
Tete Jaune Cache, CANOE RIVER,				69 B	xiii
B. C.			Limestone at, analysis	69 B	xiii
Beryls at, in a mica deposit	237	vii	Hamilton	25 B	xiii
<i>Tetradium fibratum.</i>			section	69, 70 B	xiii
Marysville	44 B	xiii	Shale, analysis	8 B	xv
Tetrahedrite (GREY COPPER).					
Annaberg, Saxony	61 B	xiv			

	Page.	Vol.		Page.	Vol.
Thessalon, ALG.			Thomas, U. M.	122	vii
Agricultural land near.....	103	iv	W.		
Beaches at and near, level of. 152, 155	155	viii	Statistics by, arsenic production,		
Boulder-clay near.....	156	viii	Europe.....	110	xi
Copper mining near, notes by			E. Clarke Co.		
Coleman.....	148	viii	Oil prospecting by, Zone tp... 21, 22		vi
See also Bruce Mines dist.			=Gilchrist process.		
Geology of dist., report by Cole-			Notes on.....	91	ii
man.....	158-163	viii	=Nightingale Pressed Brick		
Gold mining near. See Ophir			Co.		
mine.			Creation of, 1892.....	7	ii
Rocks at, conglomerate.....	185	ix	tp., NIP.		
grano-diorite, petrography. 170	170	viii	Soil in, character.....	132-134	A xiii
Huronian.....	274-276	A xiv	Trees in.....	124	A xiii
Silver mining at.....	66, 203	R C	Thompson, A. J.	72	A xiii
Gold Mg. Co.			C.	144	x
Capital and date of charter.....	13	vii		75	xi
river, L. HURON.				67	xii
Gold on.....	66, 203	R C	D. S.	118	ix
Lumbering on.....	119	iv	David		
Minor ref. to.....	202	v	Description by, of L. Superior. 62, 63		iii
Rocks on.....	39	iii	Indian relics found by, L. Iro-		
Silver on.....	203	R C	quois.....	230	A xiii
prospecting.....	59	R C	F.	118	ix
Waterpower on.....	252	vii		144	x
Thetford, QUE.			J. J.	267	xi
Asbestos in.....	97	iii	James (PERTH)	130	xii
mining, notes.....	246	i		89	A xvi
percentage of water in.....	76	iv	James (SUDBURY)	46, 48	xii
Thibadeau, J. A.			John J.	221	ix
Brick-yard of, Pembroke.....	96	B xv	Joseph		
clay for, analysis.....	27	B xv	Gold prospecting by, L. of the		
Thibault, N.	105	viii	Woods.....	232	ii
	118	ix		21	iii
	144	x		169	v
	75	xi	Michael	51	xi
	66	xii	Peter	40, 41	A xiii
Thiel, ALLIER DEP., FRANCE.			R.	118	ix
Lime output from.....	107	i		144	x
Thies, A.				75	xi
Assays by, of quartz from Mar-			Robert M.		
mora tp.....	107	R C	Account by, of "discovery" of		
Thio, NEW CALEDONIA.			Orford process.....	221	ix
Nickel mining near.....	373	R C	Evidence by, before Dingley		
	148, 149	C xiv	Tariff committee.....	43	vi
Thirteen-island lake, BEDFORD TP.,			Interested in Creighton mine...	99	ix
FRONTENAC CO.			Massey Station mine....	120	x
Feldspar mining near.....	26	x		267	xi
(See also Bedford tp.).	138	xii	International Nickel Co.	22	xi
Iron mining on. See Glendower				172	C xiv
mine.			Inventor of nickel - cheapening		
Minor ref. to.....	81	A xiv	process.....	23	iv
Photo of.....	82	A xiv	Ontario smelting works erected		
Thirty-mile lake, R. R. D.			by.....	19, 21	xi
Boulders south of.....	174	vii	Orford works owned by.....	170	C xiv
Gold near, traces.....	176	vii	Samuel	29	A xv
Rocks on and near.....	167	vii	Dr. T.		
Timber near.....	180, 181	vii	Bytownite species founded by...	226	viii
Thirty Years war.			William	44, 50	x
Effect of, on Cobalt mining,			Thompson, ALG. See Dean Lake.		
Saxony.....	78-85	B xiv	creek, L. OF THE WOODS.		
Thistle, Canada			Notes on.....	118	vii
Abitibi dist.....	253	A xiv	tp., ALG.		
Thomas, H.	106	vii	Copper mining in. See Dean		
Josiah			Lake.		
Evidence by, re royalties in Corn-			Iron prospecting in.....	97	vii
wall.....	34, 35	i	Thomson, A. W.		
Thomas A.	26, 27	viii	Gypsum quarrying by, N. Cayuga		
U. H.	54	A xvi	tp.....	111	i

	Page.	Vol.		Page.	Vol.	
Thomson, C.	144	x	Three Carrying places, ABITIBI			
G.	91	B xiii	RIVER.	183, 184, 193	viii	
Sheriff	200	vi	Friends gold mine, CLEAR-			
island, L. OF THE WOODS,			WATER BAY, L. OF THE WOODS.			
R. R. D.	186	v	Notes on, 1896.	49, 252	vi	
Thomsonite.			Hundred lake, MANITOU LAKE			
L. Superior, N. shore.	131	vi	DIST., R. R. D.			
	210, 211	ix	Gold mining on. See National			
Mamainse	194	ii	mine.			
Thomstown. See Tomstown.			Ladies gold mine, CLEAR-			
Thorah tp., ONTARIO CO.			WATER BAY, L. OF THE WOODS.			
Limestone in, Trenton	80	B xiii	Notes on, 1896	49, 252	vi	
Peat in. See Beaverton.			Portages, ABITIBI RIVER.			
Thorbus, T. O.	46, 81	viii	Photo of.	184, 185	viii	
	76	ix	Portages, FREDERICK HOUSE			
Thorle, Henry J.	71, 72	A xiii	RIVER.			
	48	A xv	Serpentine rock at	211	A xiv	
Thornbury, COLLINGWOOD TP., GREY			Rivers, CHAMPLAIN CO., QUE.			
co.			Bog iron ore of, quality.	400, 401	R C	
Brick-yards at.	66	B xv	Iron furnaces at, production	329	R C	
Oil and Mining Co.			Thrush, hermit			
Capital and date of charter	13	vii	Abitibi dist.	243	A xiv	
Thorne, B. Leonard			Wilson's			
Assayer, Great Granite Mg. Co. ..	60	ix	Abitibi dist.	126	A xiii	
Manager,	68	viii	Thullen, Louis H.	123	x	
Golden Horne mine. ..	61	A xiii	Thunder bay, L. SUPERIOR.			
Thorold, THOROLD TP., WELLAND CO.			See also Pié island and Prince			
Cement in.	177	i	bay.			
	116, 117	B xiii	Anthraxolite on.	6	Bull. ii	
works. See Battle, John.				194	ix	
Thorold Hy-			Barytes on.	195	ix	
draulic Cement Mills.			Copper near, report by Coleman.			
Limestone at, analysis.	15, 16	B xiii		145-150	ix	
Clinton.	24	B xiii	with mispickel.	205	ix	
Limestone at, quarries	119, 120	B xiii	Marl quarried near.	170	A xv	
section.	98	A xiv	Map of portion of	With	A xv	
Natural gas at, boring for. ..	160, 161	i	Pectolite on.	194	ii	
log.	113, 114	A xv	Quartz crystals on.	208	ix	
Reduction works at, proposed. ..	12	A xvi	Rise from, to Loon lake.	254	A xiv	
Silver-plating at.	131	i	Rocks on and north of	37	R C	
Hydraulic Cement Mills.				129, 133	vi	
Cement from, for St. Clair tunnel. ..	107	i	Animikie.	31	R C	
Notes on, 1890.	108, 109	i		237	iv	
Natural Gas Co.			copper-bearing.	138	vi	
Capital and date of charter	30	A xvi	Huronian.	18	R C	
tp., WELLAND CO.			petrography.	179, 180	ix	
Clay in. See also Port Robinson.			sandstone.	62, 233	R C	
Limestone quarrying in	96	i	silver-bearing.	33	R C	
Thorpe, F. J.	72	xii	trap.	32	R C	
Thousand islands, L. ONTARIO.			Silver on, report by Coleman. ..	145-150	ix	
Glaciation on	226	x	See also Port Arthur dist.			
Gneisses of	78	iv	Steatite on.	210	ix	
Islands station, PRINCE ED-			Vesuvianite on.	211	ix	
WARD CO.			Zinc-blende on.	209	ix	
Farm land east of	241	A xiii	Bay dist.			
straits, U.S. AND ONT.			Limestone in, notes by Miller. ..	111	B xiii	
Beaches on, notes by Coleman. ..	242	A xiii	Mining lands in, statistics of sales			
Three A silver mine, MACGREGOR			and leases, 1891.	7, 8	i	
TP., TH. B. D.				1892	7	ii
Cobalt in	57	B xiv		1893	5	iii
Discovery of	202	R C		1894	10	iv
Evidence re, before R. C.	195	R C		1895	9	v
Nickel in.	28, 198	R C		1896	10	vi
	57	B xiv		1897	14, 15	vii
Notes on, by Bell and McKellar.				1898	10	viii
	28, 29	R C		1899	11	ix
Coleman.	149, 150	ix		1900	10	x
Silver in, source of.	35, 36	R C		1901	12	xi
Veins of, character.	238	iv		1902	10	xii

	Page.	Vol.		Page.	Vol.
Thunder Bay dist. — Con.			Tilbury tp. (East), KENT CO.		
Mining lands in, statistics of sales and leases. — <i>Con.</i>			Oil and gas in	25 A	xvi
1903	36 A	xiii	boring for	21 A	xv
1904	23 A	xiv	map showing	93 A	xvi
1905	24 A	xv	production, 1896	24 A	xvi
1906	26 A	xvi	report by Knight	92-106 A	xvi
Land and Mg. Co.			ref. to	23, 24 A	xvi
Capital and date of charter	13	vii	tp. (West), ESSEX CO.		
silver mine, THUNDER BAY, L. SUPERIOR.			Oil and gas in. <i>See also</i> Comber.		
Evidence <i>re</i> , before Roy. Com. ... 195,	198	R C	log of well	117 A	xiv
Notes on, by Bell	34	R C	Salt well in, log	186	R C
Trap beds in	36	R C	Tilden—?	132	vii
Silver Mg. Co.			Tildon, John H.	29	iv
Capital and date of charter	13	vii		46	v
cape, THUNDER BAY, L. SUPERIOR.			Tiles.		
Altitude of	62	iii	Canada, production, 1887	213	R C
	138	vi	Devonian shale used for	75 B	xv
Beaches near	138	vi	Making of, notes on	116 B	xv
Laccolithic sills at	256 A	xiv	Shale for. Thedford	70 B	xiii
Rocks at	133, 134, 139	vi	<i>See also</i> Brick-clay.		
Animikie, thickness	124	ix	Statistics of, 1886-87	243	R C
basalt	62	iii	1891	6	i
Keweenawan	257 A	xiv	1892	7, 11	ii
	169 A	xv	1893	7, 10	iii
trap	37	R C	1894	11	iv
	15	v	1895	11, 12	v
Cape mt., THUNDER BAY, L. SUPERIOR.			1896	12, 13	vi
Norway pine on	146	vi	1897	15, 17	vii
Notes on, by Coleman	110	vi	1898	11, 12	viii
hill, MICHIPICOTEN RIVER; ALG.			1899	12, 13	ix
Description of	191	vii	1900	11, 12, 14	x
lake, NEAR DRYDEN, R. R. D.			1901	12, 13, 30	xi
Iron ore on	136	xi	1902	12, 13, 27	xii
petrographical notes.	143	xi	1903	2, 4, 15 A	xiii
Thundering-water falls, MISSINAIBI RIVER.			1904	1, 3, 16 A	xiv
Drop of	145 A	xiii	1905	4 A	xv
Photo of	176, 177 A	xiii	1906	6 A	xvi
Thurber, George Robert.	29, 60	ix	United States, 1887	213, 229	R C
	79	x	Tilken iron mine, GOGEBIC RANGE, U.S.	146	iii
	58 A	xv	Tille lake, L. OF THE WOODS REG., R. R. D.		
Philip			Gold mining on. <i>See</i> Nino mine.		
Nickel exhibited by, 1853	165 C	xiv	Tilly Foster mine, N. Y.		
Thurlow tp., HASTINGS CO.			Magnetic concentration at, notes. 325, 338,	340	xii
Cement works in	33	xii	Tilson, George (1820)	320	R C
	19 B	xiii		13	ii
Clay in, analysis	19 B	xiii	Tilsonburg, DEREHAM TP., OXFORD CO.		
Limestone in	19 B	xiii	Artesian wells in	61, 62	i
Meteorite in	203	ix	Oil in	91 B	xiii
Thurston, Robert H.			Oil and Gas Developing Co.		
Analysis of fuels given by	184	i	Capital and date of charter	11	xi
Notes by, on calorific power of fuels	186	i	Timagami, NIP.		
<i>Thuja occidentalis.</i> <i>See</i> Cedar.			Iron ore near	49 A	xvi
Tides.			compared to that of Boston tp.	262 A	xiv
L. Superior, north shore	147	viii	Mispickel near, analysis	23 B	xiv
Tiffin, Ohio.			dist., NIP.		
Natural gas in	123	i	Regional disturbances in, sketch map showing	34, 35 B	xiv
depth and pressure	155	i	Report on, by Miller	160-180	x
Tigris river, ASIA MINOR	166	i	Forest reserve.		
Tilbury, E. TILBURY TP., KENT CO.			<i>See also</i> Montreal River Mg. div.		
Gas piped to	99 A	xvi	Creation of	36 A	xvi
Minor ref. to	92 A	xvi	Description of	46, 47 A	xvi
			Iron ore in	16 A	xvi

	Page.	Vol.
Timagami Forest reserve.—Con.		
Mining restrictions within	2 A	xiii
Silver in	8 A	xvi
island, TIMAGAMI LAKE, NIP.		
Magnetite on, analysis	169	x
lake, NIP.		
Agricultural land on and near	56-58	R C
Ancient outlets of	202	v
Beauty and depth of	203	v
Compared with Larder lake	204 A	xvi
Copper on	56	R C
Fauna of district of	58	R C
Fish in	100	x
Galena near	56	R C
	175	i
Geology of	172-175	x
Glacial striae near, direction	178	ix
Gold on	26, 56	R C
Graphite on	168	x
Iron ore in region of	22	R C
	100, 201	x
	20	xii
	8 A	xiii
boring for	31, 78 A	xiv
	26 A	xv
	30 B	xiv
character	308	xii
hematite	56	R C
	15 A	xv
jaspery	168, 169, 183, 185	ix
map showing claims	316	xii
tests on	336	xii
Iron pyrites near	56	R C
	207	ix
	149, 150 A	xvi
Minerals on and near, notes by		
Haycock and Bailey	56-58	R C
Notes on, by Bell	15	R C
Pyrrhotite near	145 C	xiv
Report, by Coleman, on dist.		
N. E. of	172-174	ix
	73	i
Rocks on and near:—		
argillites, as ornamental stone.	93	i
arkose and gneissic	69, 74	i
crystalline schists	71	i
feldspathic quartzites.	72	i
greenstones	75	i
Huronian	20	R C
	71	i
Keewatin	30 B	xiv
metamorphism of	38 B	xiv
slates	73	i
roofing	56	R C
	168	i
Timber on	58	R C
	100	x
pine	119	iv
Mg. and Milling Co.		
Work by, at Net lake	87, 88 A	xv
river, STURGEON RIVER, L. NIP-		
ISSING.		
Lead ore on	147	R C
Timber.		
Abitibi dist.	180, 181, 193	viii
	196-207, 249-251 A	xiv
	125, 127 A	xv
Black river	184-188	xii
Night-hawk lake	176	viii

Timber.—Con.

As an indication of iron ore	465	R C
Big river, Opatika river	256	v
Blanche river and vicinity	215	xi
	173-183	xii
Fort Frances	161	v
Gypsum mt.	158 A	xiii
Hinterland, The	119	iv
Hudson Bay slope	176 A	vi
Kenogami river	112	iv
Lac Seul, Ont. and Kee	61, 62	v
Lake Huron slope	169, 170	vi
McKonkey tp.	171	ix
Matawin river	132	v
Mattagami River dist.	128-130	ix
	181, 182	x
	122 A	xiii
	188-195 A	xiv
	118-128, 137-153 A	xv
Michipicoten div.	13 Bull.	iii
	189, 206	vii
	200 A	xv
	295, 296 A	xiv
Mamainse pen.	72	iii
Montreal river.	130, 200	viii
Michipicoten island	61	R C
Mining lands, law regarding	226	ix
Mississagi River dist.	159-167, 172	xii
Montreal River basin	173	vi
Moose River basin	176, 177 A	xiii
New Ontario, notes by Blue	205	v
Nipigon Lake region	111, 112	iv
	212	x
	111, 138 A	xvi
Niven's base line, Alg. and S. of.	141	ix
Pigeon River dist.	146, 147	ix
Port Arthur and vicinity	114	ii
Rainy River dist.	65	R C
	180-182	vii
Rainy Lake region	95	iv
river	117	iv
	207, 208	v
Seine river	149-155	v
	74	vi
Wabigoon Lake region	172	vii
Savant lake	88	xii
Shebandowan Lake region ...	79, 117	v
Spanish river	125	ix
Speight's meridian line, E. of L.		
Superior	199-203	viii
Sweden, for charcoal making ...	396	R C
Timagami dist.	56-58	R C
	161	x
White Bear lake	174	ix
Timiskaming and Northern Ont-		
ario R'y.		
Cobalt discoveries due to.	96 A	xiii
	9 B	xiv
Clay deposits to be opened by ...	17 A	xiii
Extension of, projected	9 A	xiii
Iron ore along	263 A	xiv
Route of, notes on	34, 35 B	xiv
lake, NIP.		
Agricultural land on and near ...	103	iv
	206	v
notes by Coleman	177, 178	ix
Altitude of	178	ix
Beaches on, notes by Coleman.		
	177, 178	ix

	Page.	Vol.
Timiskaming lake.—<i>Con.</i>		
Colorado beetle known near....	107	iv
Clay on, analysis	26, 27 B	xv
Saugeen	18 B	xv
Country between and height-of-land, report by Miller.....	214-230	xi
Galena on, auriferous.....	67	R C
mining.....	230	xi
<i>See also</i> Wright silver mine.		
Geology of country S. of, paper by Bell.....	63-94	i
Glacial striae on, direction....	178, 179	ix
Iron ore near.....	12 A	xiv
specular.....	142	R C
Jaspilite north of.....	178	x
Lithographic stone on.....	6 B	xiii
Moose east of.....	162	x
Notes on, by Coleman.....	172	ix
Railway to, from North Bay, suggested.....	179	x
Report, by Coleman, on dist. W. and E. of.....	172-174	ix
Rocks on and near :—		
basal conglomerate.....	185	ix
breccia, photo.....	45 B	xiv
granite.....	84	i
Huronian.....	17-20	R C
158		viii
41, 48, 49 B		xiv
Keewatin.....	30 B	xiv
photo.....	42, 43 B	xiv
limestone, fossiliferous.....	85, 86 B	xiii
Niagara.....	44	R C
204		v
6, 22 B		xiii
Silurian.....	165	x
notes by Logan.....	41 B	xiv
slates.....	47 B	xiv
Silver on, E. side. <i>See</i> Wright mine.		
W. side. <i>See</i> Cobalt dist.		
Smaltite with bismuth near.....	28 B	xiv
Timber west of.....	118, 120	iv
Mining division.		
Description of.....	37 A	xvi
Formation of.....	38 A	xv
36 A		xvi
Timmins, Noah		
Acknowledgments to.....	40 A	xiv
Manager, La Rose Mg. Co.....	73 A	xv
- Part owner, La Rose mine.....	5 A	xiv
Timothy.		
Garden River, near.....	197	viii
Michipicoten div.....	13 Bull.	iii
206		vii
island	144	viii
Pigeon River dist.....	146	ix
Rainy Lake dist.....	165	v
Wanapitei Lake dist.....	137	vii
Tin.		
<i>See also</i> Cassiterite.		
Alloys of, antiquity of.....	381	R C
Beryl and Columbite associated with.....	234, 236	vii
Cornwall, Eng.....	34, 35, 173	i
for "salting" in Byron tp..	139	viii

Tin.—*Con.*

	Page.	Vol.
Marmora dist ...	36	iv
Michipicoten div., notes on "salting" (1872).....	138, 139	viii
Prospecting for, hints on....	458, 459	R C
Straits Settlements.....	43	i
Sudbury dist.....	59	R C
Vermilion river.....	190	ii
36		iv
Tasmania, absence of royalty on.	45	i
plate.		
Canadian imports of, 1881-87.	248, 254	R C
works.		
Statistics of, 1881.....	116	ii
Tinguaita.		
Analysis of, various localities....	189	ix
Tip-top copper mine, (K 65 LOC.),		
ROUND LAKE, E. OF MOSS TP., TH.B.D.		
Assay map of.....	174 A	xvi
Camp of, photo	128, 129	xi
Gold in.....	81	xii
Gossan from, analysis.....	186 A	xvi
Mining class at.....	53-56 A	xiii
Minor ref. to.....	7 A	xiii
Notes on, 1899.....	86	ix
1901.....	275, 276	xi
1902.....	101, 102	xii
1903.....	77, 78 A	xiii
1906.....	61, 172, 173 A	xvi
Notes on, by Blue.....	118	v
Coleman.....	75	v
Photos of.....	80, 81 A	xiii
Producing, 1906.....	15 A	xvi
Prospecting on, 1905.....	61 A	xv
Smelter at, suggested.....	59 A	xiii
Sulphide deposits in.....	11 A	xiv
Copper Mg. Co.		
Capital and date of charter.....	9	x
mt., NEAR WHITE SPRUCE HARBOUR, L. SUPERIOR.		
Altitude of.....	150	viii
281 A		xiv
Glacial striae on, direction	157	viii
Notes on, by Coleman.....	142	viii
Rocks in vicinity of.....	134	viii
Tires.		
For locomotives. <i>See</i> Locomotives.		
Tisdale, Lieut. Col. D.		
Gold mining by, Michipicoten div.....	106	vii
101, 105		viii
W. E.....	106	vii
105		viii
tp., ALG.		
Beaver dams in.....	127 A	xiii
Soil and trees in....	121, 133 A	xiii
Titaniferous iron ore (MENACANITE).		
<i>See also</i> Ilmenite.		
Glamorgan tp.....	62	ii
Hastings dist.....	45, 49, 51	ii
Iron from, of superior quality....	231	vii
Murray mine, Sudbury dist.....	281	xii
162 C		xiv
St. François, Que.....	346	R C
Seely Bay, near, notes.....	230, 231	vii
229		viii

	Page.	Vol.		Page.	Vol.
Titaniferous iron ore. — <i>Con.</i>			Topaz.		
Smelting of, notes by Blue.....	89-91	ii	Description of.....	228	vi
Vanadium in.....	233	vii	Hardness and specific gravity of.....	448	535 R C
Titanite or Sphene.				203	vi
Abitibi river, Alg.....	185	viii		214	vii
Apatite dists.....	433-442	R C	Topeka, KAN.		
Burgess, N. tp.....	242	viii	Section of arch construction at... 178 A	xiv	
Definition of.....	544	R C	Top-of-the-Rock, MARYSBURG TP.,		
Egansville, notes.....	209	ix	PRINCE EDWARD CO.		
Exhibit of, at Worlds' Fair.....	189	ii	Beaches at.....	240 A	xiii
Hardness of.....	202	vi	Topography.		
Notes on, by Goodwin.....	227	vi	Abitibi dist.....	115, 116 A	xiii
Kunz.....	211	ix		185-187 A	xiv
Specific gravity of.....	202	vi	Hastings corundum dist.....	220	vii
Titanium.				209, 210	viii
In iron ores, Black bay, L. Su-			Larder Lake dist.....	203, 204 A	xvi
perior.....	189	v	Michipicoten div.....	153, 154	xi
effect of.....	467	R C		281, 282 A	xiv
	88, 89	ii	Mississagi River dist.....	158	xii
	9 A	xiii	New Ontario, notes by Blue... 201-204	v	
Moisie, Que.....	189	v	Sudbury dist.....	236-238	xii
Titley and Frost.				4, 5 C	xiv
Brick-making by, Carlton West. 107 B	xv		Northern Nickel range.....	192 A	xiii
Titusville, CRAWFORD CO., PA.			Timagami dist.....	161, 162	x
Gas at.....	157	i	Windigokan Lake dist.....	138 A	xvi
Toad.			Torbolton tp., CARLETON CO.		
Abitibi dist.....	127 A	xiii	Cambro-Silurian in.....	38 B	xiii
river, L. SUPERIOR			Torf mull. See Moss litter.		
Terraces at mouth of, photo.. 204, 205	vii		Toronto.		
Tobacco.			Adamant mills in.....	112	i
L. of the Woods.....	105	vi	Agricultural land near.....	198	v
Moose Factory.....	107	iv	Beach at.....	230, 236 A	xiii
Tobermory, ST. EDMUNDS TP.,			Blast furnace at, suggested.....	394	R C
BRUCE CO.				114-116	ii
Magnesian limestone near.....	37 B	xiii	Bricks at, clay for.....	104	i
lake, GREY CO.				126	iii
Marl from.....	150 A	xiv	analyses.....	114 B	xv
Tobin, F.	144	x	description.....	107 B	xv
J.	75	xi	price.....	15 A	xiii
Todd, G.	105	viii	output, 1888.....	72	R C
J. A.	75	xi	yards, description and		
	67	xii	photos.....	48, 107-114 B	xv
Toe-nail hill, TORONTO.	127	iii	Boiler-covering (mica) factory		
<i>Tofieldia glutinosa.</i>			at.....	32	v
Mattagami valley.....	150 A	xv	Coal falsely reported at.....	203	ii
" <i>palustris</i>			used in waterworks at, an-		
Abitibi Lake dist.....	241 A	xiv	alysis.....	4 Bull.	ii
Togue. See Trout, lake			Court-house of, building-stone		
Tohorsky, Mytro.	35 A	xvi	for.....	99	i
Toledo, LUCAS CO., OHIO.			Gas in dist. of.....	4, 138, 139	i
Cincinnati group near.....	116	i	boring for.....	126 B	xiii
Gas piped to, from Findlay.....	123	i	compared to acetylene.....	40	v
Tolmie, John			Geological museum at, facilities		
Evidence by, before R.C. re:—			for.....	412	R C
salt, duties on.....	236	R C	Gravel bars at.....	227.	x
Kincardine.....	184, 189	R C	Hudson River shales at.....	4	i
Tolson, J. H.	106	vii	Mining school at, advisability of. 423	R C	
Tomatoes.			<i>See also School of Practical</i>		
Mentioned as growing at:—			Science.		
Lake of the Woods.....	105	vi	Name of, changed.....	196	v
Lac Seul.....	62	v	Oil near, boring for.....	126 B	xiii
Tonkin, Colon	25, 96, 275, 280	viii	Petalite found at, in a boulder.. 194	ii	
Tonstron, Charles	42, 50	x		206	ix
Toomah bay, BEDFORD TP., FRON-			Streets of, asphalt and cedar for.	105, 106	iii
TENAC CO.			cost of.....	14	v
Pyroxene on.....	207	ix	vitrified brick for....	17	v

	Page.	Vol.		Page.	Vol.
Toronto and Hamilton Sewer Pipe Co.			Toronto Street Railway.		
Fire at plant of.....	19	A xvi	Tests by, on Dickson peat process. tp., PEEL CO.	201	i
Minor ref. to.....	29	xii	Brick works in. See Port Credit.		
Notes on, 1906.....	116	B xv	clay for.....	85	R C
and Western Mines Dev. Co.			Toronto-Tudor Mg. Co.		
Capital and date of charter.....	13	viii	Capital and date of charter.....	13	vii
Work by, Lake of the Woods,			Toronto Vitrified Paving Brick and Stone Co.		
1897.....	131	vii	Property of, notes on.....	127	iii
1898.....	67, 90	viii	Torrance, David	137	R C
1899.....	56, 57	ix		39, 97	vi
and Whitby Mg. Co.			John F.		
Capital and date of charter.....	13	vii	Gold mining by, R. R. d.....	25, 227	iv
Cobalt Mg. Co.			Graphite mining by, Renfrew co.	196	iii
Capital and date of charter.....	26	A xv		26	xii
Fire Brick Co.			Gypsum mining by, Brantford		
Analysis of shale used by.....	8	B xv	tp.....	281	v
Works of, Mimico, notes and			Torsion tests.		
photos.....	110, 111	B xv	On iron, notes by Riley.....	385	R C
Gold Mg. Co.			Tory Hill, MONMOUTH TP., HALI-		
Capital and date of charter.....	13	vii	BURTON CO.		
Toronto-Hamilton Portland Ce-			Syenite near.....	216	viii
ment Co.			Totten, Henry See Totten nickel mine.		
Capital and date of charter.....	37	A xiii	J. W.	106	vii
Toronto Iron Co.			Hogg & Co.	120	ii
Capital of.....	131	R C	nickel mine, DENISON TP., AIG.		
island, LAKE ONTARIO.			Rocks in.....	30	C xiv
Formation of.....	237	A xiii	Work at, 1906, notes on.....	67	A xvi
Gravel bars at.....	230	A xiii	Touchette, J.	75	xi
Junction, YORK TP., YORK CO.				67	xii
Merrielfield gas generator work-				48	A xiii
ing at.....	231, 232	xii	Touchstone.		
Vitrified brick made at.....	129	iii	Definition of.....	224	vi
Lime Co.			Tough, Robert J.		
Analysis of marl and limestone			Nickel mining by, Levaek tp ...	274	v
used by.....	183	A xiv	See also Stobie nickel mine.		
Cement and lime works by..	108, 109	i	W.	106	vii
	32	xi	and Stobie nickel mine. See		
	28, 31	xii	Stobie nickel mine.		
	18	A xiii	Tourists.		
	18	A xv	As cause of forest fires.....	177	A xiii
Plant of, notes and photo.....	165	A xiv	Tourmaline.		
Marble Co.			Apatite districts.....	442	R C
Gypsum used by, for marble....	280	vi	Boerth gold mine.....	203	xi
Mining Association, Ltd.			Determination of.....	205	vi
Capital and date of charter.....	13	vii	Description of.....	544	R C
Mg. and Exploring Co.			Elmsdale (near), mistaken for		
Capital and date of charter.....	13	vii	coal.....	172	ix
Nickel Co.			Exhibited at World's Fair.....	189	ii
Capital and date of charter.....	13	vii	Hardness of.....	202	vi
Peat Fuel Co.			Kaladar tp.....	238	vii
Experiments by, on peat plant..	32	A xiii	Golden Fleece mine....	203	xi
Formation of.....	28, 37	A xiii	Lyndoch tp.....	237	vii
Portland Cement Co.			Notes on, by Goodwin.....	228	vi
Capital and date of charter.....	11	xi	Occurrences of.....	211	ix
Pottery Co.			Ross tp.....	190	ii
Capital and date of charter.....	24	A xiii	St. Gothard mt., Switzerland ...	241	viii
Pressed Brick and Terra			Specific gravity of.....	202	vi
Cotta Co.			Utoe island, Sweden.....	472	R C
Notes on.....	103	ii	Tourmaline schist.		
by Hewson Murray.....	85	R C	Loon portage, Mattagami river... 134	A xv	
Brick and terra-cotta supplied by.	29	xii	Toussaint. See Weesian, Toussaint		
	120	B xv	Tower, VERMILION LAKE, U. S.		
Plant and quarry of, photos	9, 67	B xv	Iron ores of.....	20, 22	R C
section	78	R C	notes by Coleman.....	152, 153	ix
Sand Lime Brick Co.			Merritt.....	124, 125	R C
Capital and date of charter.....	26	A xv	width of beds.....	144	R C
Smelting Co.			Stage from, to Mine Centre.....	49	viii
Arsenic making by, at Madoc... 288		viii			

	Page.	Vol.		Page.	Vol.
Tower of Babel.	161	i	Trap. -- <i>Con.</i>		
	107	iii	Nipigon bay, photo of castellated cliff	112, 113 A	xiii
Towers, T. A. P.			Ottawa co., Que., dikes of	437	R C
Evidence by, before R.C. re Government aid to mining	425	R C	Travers, Morris W.		
Mining laws	309	R C	Calcic carbide made by	144	iv
Sault Ste. Marie dist.	60	R C	Ref. to paper by, on fergusonite	236	vii
Mining by, Michipicoten div....	118	ix	R.	118	ix
	144	x		48 A	xiii
Townley, W. B.	118	ix	R. P.		
Townshend—?			Managing Director, Inez nickel mine	190	iii
Copper mining by, L. Superior. (1774)	209	v		276	vi
E. S.	190	iii		94	vii
T. B. & Co.			Mine of, idle, 1894.....	249	iv
Analysis of shale used by, Zanesville	119	iii	1895	273	v
			<i>See also</i> Inez mine.		
Townsend tp., NORFOLK CO.			Thos.		
Fossil corals in	142	xii	Acknowledgments to	61	xi
Gravels in, stratified. <i>See</i> Waterford.			Manager, Creighton mine	64 A	xv
Limestone quarrying in. <i>See</i> Villanova.			Gertrude mine	99	ix
Oriskany formation in.....	153	xii		65, 281	xi
				123	xii
Townships.				87 A	xiii
Curious names of early.....	15	ii	Inez mine.....	232	i
Growth of.....	136	iv		276	vi
Townsley, G. S.				98	vii
Brick producing, 1902.....	28	xii	Work by, at Murray mine.....	93	vii
Toynbee, Arnold			Travers nickel mine. <i>See</i> Inez nickel mine.		
Data by, re iron imports of Gt. Britain	357	R C	Traverse City Gold Reef Co.		
Trachyte.			Capital and date of charter	25 A	xvi
Description of	544	R C	Travertine.		
	235	vi	Oneida tp.	211	ix
Tracy, Gen. B. F.			Paris, Ont.	34 B	xiii
Nickel steel adopted by, for U.S. Navy.....	170 c	xiv	<i>Traxinus sambucifolia.</i> <i>See</i> Ash, black		
Photo of	171 c	xiv	Traynor, Isaac	139	viii
Report by, on armour plate trials	136-138	ii	Treadwell gold mine, ALASKA.		
Tests by, on nickel-steel.....	185	iv	Character of deposit.....	119	vi
Trading Companies.			Gold contents, average	82	v
History of, in Canada	196-201	v	Rock of, petrography.....	27	R C
Trafalgar, Battle of	164	i	Treasure gold mine, NEAR ROSSLAND, R. R. D.		
bay, ANZHEKUMMING LAKE, R. R. D.			Depth of, 1899	35	ix
Gold mining on.....	76	vii	Notes on, 1892	234, 235	ii
<i>See also</i> Neepawa gold mines.			1894.....	227	iv
tp., HALTON CO.			1899.....	38	ix
Iroquois beach in. <i>See</i> Oakville.			by Blue	30	iii
Tralee, KERRY CO., IRELAND.			Rocks in	69	iv
Price of peat in (1890)	189	i	Treaty island, L. OF THE WOODS, R. R. D.	13	iii
Transcontinental Railway.				187	v
Prospects of, 1903.....	xi A	xiii	Treaty of Ghent.		
Transvaal, S. AFRICA.			Boundary line, Canada and U. S. defined by	108, 192	v
Cobalt in.....	70 B	xiv	Trees. <i>See</i> Timber.		
Trap.			Tregoning, Archelaus	178	ii
Bruce Mines, for road metal... 13-16	v		John	173	ii
125, 169	viii		Trelawney mine, ST. IVES, ENGLAND	111	xi
Definition of.....	544	R C		167, 171	iii
	14	v	Tremblay, George (Snr.)	171	iii
Distribution of.	15	v	George (Jnr.)	65, 67	xii
Lake Superior, north shore .. 130-136	vi		Joseph	47 A	xiii
Mamainse pen.....	77-80	iii	Trembley, MICHIPICOTEN DIV.		
Lake of the Woods, plan showing alternation with granite .64, 65	viii		Pleistocene deposits at.....	184	xi
				196 A	xv
			C.	144	x

	Page.	Vol.
Trembley, J.	106	vii
	105	viii
	118	ix
	144	x
	75	xi
	67	xii
	48	A xiii
Trembly farm, E. TILBURY TP.	103	A xvi
Tremolite (RAPHILITE).		
Definition of.....	544	R C
Exhibited at World's Fair.....	188	ii
Hardness of.....	202	vi
Occurrences of.....	208, 211	ix
Specific gravity of.....	202	vi
Trent Bridge, SEYMOUR TP., NORTH- UMBERLAND CO.		
Iroquois beach near.....	227	A xiii
canal, NORTHUMBERLAND CO.		
Hydraulic lift-lock at, photo ...	16	B xiii
Portland cement works on.....	31	xii
Waterpower from.....	149	A xiv
river, NORTHUMBERLAND CO.		
Ancient valley of	231	A xiii
Beaches north of	232, 236	A xiii
Limestone on, fossiliferous.....	88	B xiii
Valley Peat Fuel Co.		
Intelligent enterprise of....	114	x
Peat bog of, notes.....	209	xii
Plant of, notes.....	219	xii
Merriemfield generator at	231	xii
Notes on, 1899.....	21, 22	ix
Trenton.		
Beaches near.....	231, 235, 239, 240	A xiii
altitude	222	x
photo.....	234, 235	A xiii
photo.....	224, 225	x
Gravel pit in esker at, photo. 224, 225		x
Trenton formation in.....	89	B xiii
Trenton, N. Y.		
Trenton formation named after..	41	R C
formation.		
Cement from	106	i
27, 37, 40, 46, 48		B xiii
Character and distribution....	41, 42	R C
Frontenac co.	44	B xiii
Hastings co.	59	B xiii
Marmorata tp.	137	iii
Lake Huron	93	i
Manitoulin island	75, 76	B xiii
Little Current	85	R C
quarried.....	74, 84	R C
thickness.....	72, 73	A xv
St. Joseph island.....	79	B xiii
Lambton co., Petrolea, height		
above tide level.....	113	A xv
Lanark co.	70	B xiii
Lennox co., Napanee, cement in.	109	i
Montreal section of	97	A xiv
Nipissing dist.	84	B xiii
Nomenclature	41	R C
Northumberland co.....	88, 89	B xiii
Oil-fields, thickness and section. 96,		A xiv
Ontario co.	89	B xiii
Peterborough co.	97	B xiii
Position of, in Silurian	2	R C
Prescott co.....	98	B xiii
Prince Edward co.	99	B xiii
Renfrew co.	104	B xiii

	Page.	Vol.
Trenton formation.—Con.		
Russell co.	107, 108	B xiii
Simcoe co.	109, 110	B xiii
Lake Simcoe	90	B xiii
Storionmont co.	110, 111	B xiii
United States	116, 117	i
natural gas in	151, 152	R C
Trenton, N. Y.	41	R C
Victoria co.	112	B xiii
York co.	126	B xiii
Mimico and Toronto.....	139	i
Granite and Marble Co.		
Working near Bancroft	82	A xvi
Tres Puntas, CHILI.		
Smaltite in silver mines of	72	B xiv
Tressider steel process.		
Notes on.....	153-156	iii
Trethewey, A.	59	xii
George H.	94	ix
Richard	155-157	vi
Thomas	201, 214	iv
Thomas Henry		
Copper mining by, Mamainse		
pen.	102	R C
130, 241		ii
72		iii
240		iv
Evidence by, before Royal Com.		
re:—		
East Silver Mt. mine.....	194, 201	R C
Free trade.....	232	R C
Mamainse minerals	102	R C
Mining laws and schools ..	312, 427	R C
Want of railways	240	R C
Manager, Wellington mine.....	125	viii
W. G.		
Acknowledgments to.....	17	B xiv
Owner, New Ontario mine.....	5	A xiv
See also Coniagas silver mine... 7, 74		A xv
W. J.	54	x
Silver Cobalt Co.		
Capital and date of charter	31	A xvi
Dividend, 1906-7.....	13	A xvi
silver mine, COBALT. See New		
Ontario silver mine.		
Triassic.		
Definition of	544	R C
Tribute mining.		
Explanation of.....	94	R C
<i>Tridentalis americana.</i>		
Abitibi Lake dist.	241	A xiv
Mattagami valley	150	A xv
<i>Trifolium repens.</i>		
Abitibi Lake dist.	242	A xiv
Triggs, J. H.		
See also next ref.		
Manager, Triggs gold mine....	63, 64	viii
44		ix
Notes by, on same	72	x
gold mine, NEAR ANDREW BAY,		
L. OF THE WOODS.		
Depth of, 1900.....	35	ix
Notes on, 1897.....	39	vii
1898.....	63	viii
1899.....	43, 44	ix
1900.....	72	x
Gold Mining Co.		
Capital and date of charter	10	viii
Officers of	63	viii

	Page.	Vol.		Page.	Vol.
Trill Mg. and Mfg. Co.			Trotter, Thomas		
Incorporation and capital of...7,	276	vi	Copper mining by, May tp.....	68 A	xv
Operating, 1897.....	25	vii	Superintendent, Shakespeare		
See also Inez nickel mine.			gold mine.....	66 A	xv
tp., ALG.			Boring by, for oil, Caledonia....	20	x
Copper prospecting in.....	8	iii	Trousdale, J. W.		
	98	ix	Grant mica mine purchased by..	103 A	xv
Gold in.....	225	i	Lacey mica mine re-opened by..	134	x
Nickel in.....	248	iv		287	xi
	276	xii		84 A	xiv
See also Sultana nickel mine.			McClatchey mica mine purchased		
Trillabelle nickel mine.			by.....	127	xii
Pine in... ..	193 A	xiii	Mica mining by, 1903.....	12 A	xiii
Road in, built by Gov't.....	9	vi	Gould lake.....	23 A	xvi
Rocks in.....	196 A	xiii	Mica works of, Sydenham.....	291	xi
conglomerate.....	131 C	xiv		131	xii
greenstone.....	75	i		106 A	xv
nickel-bearing.....	23, 63, 64 C	xiv			
Swamps in.....	193 A	xiii	Trout.		
Trillabelle mine, TRILL TP., ALG.			Anzhekumming lake, R.R.d....	44	iv
Absence of gossan near.....	65 C	xiv	Clearwater lake, R.R.d.....	44	iv
Geology of, notes by Coleman..	63, 64 C	xiv	L. Superior.....	13 Bull.	iii
Notes on, 1894.....	248	iv	streams entering.....	142	viii
by Coleman.....	196 A	xiii	Loch Earne, Th. B.d.....	126	v
Trillium cernuum.			Manitou straits, Manitou lake...	123	vii
Abitibi Lake dist.....	241 A	xiv	Mattagami River dist.....	117 A	xv
Mattagami valley.....	150 A	xv	Michipicoten div.....	206	vii
" grandiflorum.			Sturgeon lake, Th.B.d.....	40	x
Abitibi Lake dist.....	241 A	xiv	brook		
Trilobita.			Lake Superior, streams entering.	147	viii
Anderdon tp.	125	xi		105 A	xvi
Definition of.....	544	R C	Michipicoten div.....	297 A	xiv
Kwataboahagan river.....	190 A	xiii	Dog river.....	133	viii
Potsdam formation.....	40	R C	lake (TOGUE).		
St. Joseph island, L. Huron	178	ii	Bad Vermilion lake.....	63	v
Thorold.....	117 B	xiii	Montreal river.....	172	ii
Walpole tp.,.....	144	xii	Windermere lake, Alg.....	201	viii
Tripe de roche. See Lichen.			mountain		
Triple Link Mg. and Development			Hudson Bay slope.....	178	vi
Co.			salmon		
Capital and date of charter.....	26 A	xv	James bay and tribs.....	133	iv
Tripolite (INFUSORIAL EARTH).			Lake Superior.....	147	viii
Formation and use of.....	236	vi	Nipigon lake and river. 110, 136,	139 A	xvi
Trist, Robert William			Timagami lake.....	58	R C
Contractor at Copper Cliff mine..	173	iii	speckled		
	241, 242	iv	Michipicoten div.....	206	vii
	239, 267, 269	v	Batchawana region.....	202	viii
Statement by, re ore roasting. 169,	170	iii	Dog river.....	133	viii
Triumph gold mine, PINE PORTAGE			Pukaskwa river.....	137	viii
BAY, L. OF THE WOODS.			bay, L. SUPERIOR, ONT.		
Depth of, 1898.....	35	ix	Photo of.....	148	ix
Mill at.....	6 Bull.	i	Development and Mg. Co.		
photo.....	112, 113	vi	Capital and date of charter.....	24 A	xiii
Notes on, 1896.....	96, 97	vi	lake, BOWELL TP., NIP.		
1897.....	57	vii	Beaches on and near.....	106 C	xiv
1898.....	42, 55	viii	altitude.....	103 C	xiv
Gold Mining Co.			Minor refs. to.....	192, 200 A	xiii
Oil dist., OHIO, U.S.			Rocks on.....	201 A	xiii
Notes on, by Carll.....	151, 152	i	conglomerate, notes. 10, 39, 94,		
Trojan gold mine, GRASSY BAY, L.				129, 130 C	xiv
OF THE WOODS.			micro-pegmatite.....	115 C	xiv
Idle, 1900.....	73	x	nickel-bearing eruptive.....	211 A	xiii
Notes on, 1897.....	43, 113	vii		68-71 C	xiv
1899.....	51	ix	sandstone ridges.....	100 C	xiv
Trombly, Peter			tuff, analysis.....	132 C	xiv
Copper mining by, Black bay... ..	109	x	Shores of, character.....	6 C	xiv
	274	xi	Zinc-blende on.....	121 C	xiv
			lake, MICHIGAN, U. S.		
			Analysis of limestone from.....	13 B	xiii

	Page.	Vol.		Page.	Vol.
Trout lake, MICHIPICOTEN DIV., ALG.			Tudor tp., HASTINGS CO.		
Glacial deposits near.....	192 A	xv	Andradite in.....	193	ix
Minor ref. to.....	179 A	xv	Bismuth in.....	195	ix
lake, MORGAN TP., ALG.			Bismuthinite in.....	234	viii
Beach on, altitude.....	103 C	xiv		195	ix
Minor refs to.....	198, 200 A	xiii	Epidote in.....	198	ix
Rocks on, nickel eruptive.....	68 C	xiv	Gold in.....	28, 110	R C
lake, NEAR ECHO LAKE, ALG.				54	iii
Description of, by Coleman.....	124	viii	mining. <i>See</i> Craig mine.		
Rocks on.....	159	viii	Iron ore in, magnetite, analysis.	201, 202	ix
lake, NEAR MANITOU LAKE,			exhibited in Chicago.....	82	ii
R.R.D.			London.....	42, 43	ii
Gold mining on. <i>See</i> King Ed-			mining. <i>See</i> St. Charles		
ward mine.			mine.		
lake, S. OF THE HEAD OF BAY			Lead in.....	30	R C
LAKE, NIP.			<i>See also</i> Katherine lead mine.		
Cobalt bloom and smaltite on...	29 B	xiv	Mispickel in.....	205	ix
Lake Cobalt Mg. Co.				105	xi
Capital and date of charter.....	30 A	xvi	Rocks in, limestone, notes.....	62 B	xiii
river, KAPUSKASING LAKE,			notes by Miller....	198, 199	xi
ALG.			<i>Tuentalis. See</i> Star flower.		
Description of, and of country			Tuffs.		
near.....	135-138	ix	Northern nickel range.....	205, 206 A	xiii
Forest fires on.....	142	ix	Tug channel, L. OF THE WOODS,		
Waterpower on.....	142	ix	R.R.D.		
(MACOEZENDA) river, MOOSE			Notes on, by Coleman.....	117	vii
RIVER.			Tully limestone (HAMILTON FORMA-		
Rapids on, photo.....	224, 225	ix	TION).		
Trowbridge, Charles A.			Composition of.....	99 A	xiv
Part owner, Silver Islet mine.	141, 156	vi	tp., NIP.		
Photo of.....	128, 129	vi	Gabbro in, petrographical notes..	210 A	xiv
C. C.	172	ii	Greenstone in.....	192 A	xiv
Troy, HISSARLIK MT., NEAR THE DAR-			Soil in, and near.....	246, 247 A	xiv
DANELLES.			muskeg.....	193 A	xiv
Cobalt glass in ancient graves at.	69 B	xiv	requires drainage.....	207 A	xiv
Historical notes.....	166, 167	i	Timber in, and near. 192, 222, 223,	235 A	xiv
Troy, U. S.			Tungstate of lime. See Scheelite.		
Blast furnace at, reason for loca-			Tungsten.		
tion.....	127	ii	Notes on; price of.....	217	vi
lake, NIP.			Use of.....	233	vii
Description of.....	110 A	xiii	Tunnel, The, MISSISSAGI RIVER, ALG.		
Steel and Iron Co.			Description of.....	164, 165	xii
Analyses by, of iron from Snow-			Huronian slate, near.....	171	xii
don tp.....	131	R C	Photos of.....	160, 161	xii
Trudeau, ALG.			island, L. OF THE WOODS,		
Explorations between, and Missi-			R. R. D.....	14	iii
naibi river, paper by Borron.	241-258	v		171	v
Truesdale mica mine, LOUGHBORO			Tupper, Hon. Sir Charles H.		
TP., FRONTENAC CO.			Director, Cramp Steel Co.....	23	xii
Notes on.....	250	ii	Report by, on nickel-steel... 174-179	c	xiv
Tubal=Cain.			Statement by, <i>re</i> Canadian iron		
Brass casting by..	381	R C	consumption.....	398	R C
Tube mills.			Turbine station, SPANISH RIVER, ALG.		
For cement making.....	132 A	xiv	Waterpower near.....	10 A	xiv
Tuberculosis.			Turcott gold mine, NEAR MANITO-		
Among Indians.....	178 A	xiii	PEEPAGEE LAKE, TIMAGAMI DIST.,		
Tubing.			NIP.		
Canadian imports of, 1881-87, 248,	254	R C	Vein of.....	176	x
Tubular-spar. See Wollastonite.			<i>Turdus aonalaschke pallasii. See</i>		
Tucker=?			Thrush, hermit		
Boring by, for oil, Manitoulin			<i>fuscescens. See</i> Thrush, Wilson's		
island.....	73 A	xv	Turgeon, A.	106	vii
Tuckersmith tp., HURON CO.			Turgite.		
Pottery works in. <i>See</i> Egmondville.			Madoc and N. Burgess tps.....	211	ix
Salt in. <i>See</i> Seaforth.			Turing, Henry		
Tudhope, J. B.	91 B	xiii	Consular report by, on peat in		
			the Netherlands.....	215-217	

	Page.	Vol.		Page.	Vol.
Turkey.			Turtle river, LITTLE TURTLE LAKE,		
Arsenical ores in.....	102	xi	R.R.D.		
Emery in.....	62	vi	Agricultural land along.....	45	iv
Turnberry tp., HURON CO.				91	v
Brick-yards in. <i>See</i> Bluevale and			Iron ore on.....	309	xii
Glenannan.			pyrites on.....	175	A xvi
Salt in. <i>See</i> Wingham.			Notes on, by Coleman ..	126-128	vii
Turnbull, J. S.			Route to, from Dryden, descrip-		
Galena mining by, Dorion tp....	38	R C	tion.....	126	vii
Turner, A. P.			(MUSQUATAYSEE) river, TURTLE		
Acknowledgments to.....	37	A xiv	LAKE, MONTREAL RIVER, NIP.		
Financial Agent, Canadian Copper			Minor ref. to.....	112	A xiii
Co.....	123	x	Porphyry on.....	119	A xiii
	64	xi	stones.		
Photo of.....	140	C xiv	Definition of.....	544	R C
President, Canadian Copper Co.	117	xii	Tuscany, ITALY.		
	54	A xiii	Mineral lands in, sale of.....	297	R C
	1	C xiv	Tuscarora, ONONDAGA TP., BRANT CO.		
	63	A xvi	Mineral water from, analysis....	204	ix
Value of Sudbury output given			Tutchet, Sir Samuel.....	209	v
by.....	156	C xiv	Tuttle, Thomas.....	86	A xiii
Turner, Charles A.....	118	ii	Tuttle gold mine. <i>See</i> Deloro gold		
Charles E.....	129	x	mine.		
Henry G.....	43	vi	Tutwork mining.		
Jemima.....	106	vii	Explanation of.....	94	R C
W.....	106	vii	Tweed, HUNGERFORD TP., HASTINGS		
William Barrow			CO.		
Evidence by, <i>re</i> royalties in Gt.			Brick-yard at.....	70	B xv
Britain.....	29	i	analysis of clay used in....	17	B xv
Turner island, CLEAR LAKE, RENFREW			Marble near.....	64	B xiii
CO.			quarried.....	236	R C
Apatite vein in.....	439	R C	Pyrites mining near.....	95	A xiii
with hornblende..	441	R C		21	A xvi
Pyroxene in.....	207	ix	<i>See also</i> Hungerford mine.		
Titanite in.....	211	ix	Twentieth Century gold mine,		
Turners falls, CONNECTICUT RIVER,			MANITOU LAKE DIST., R.R.D.		
U. S.			<i>See also</i> next ref.		
Waterpower of.....	485	R C	Mining class at, 1903.....	4, 52	A xiii
Turnips.			Producing, 1902.....	15	xii
Mentioned as growing at :			1903.....	4	A xiii
Albany River.....	111	iv	Century Gold Mg. Co.		
Fort Mattagami.....	121	A xiii	Capital and date of charter.....	11	xi
Goulais River valley.....	197	viii	Gold mining by, Manitou Lake		
Lake of the Woods.....	105	vi	dist.....	248-250	xi
Lost lake, R.R.d.....	60	v		92	xii
Mississagi.....	164, 167	xii		67	A xiii
New Post, Abitibi river....	186	viii		42, 51	A xiv
Night-hawk lake.....	123	A xiii	Plant of, photo.....	256, 257	xi
Rainy river.....	163	v		48, 49	A xiii
Turnquist, Victor.....	54-57	xi	Twin Cities mine, L. SUPERIOR.		
Turpentine.			Witherite in.....	194	ii
As a by-product of charcoal			City Brick and Supply Co.		
burning.....	481	R C	Capital and date of charter.....	26	A xv
Turquoise.			islands, EAGLE LAKE, R.R.D.		
Hardness and specific gravity of.	202	vi	Gold mining on and near... 95, 96		x
Notes on, by Goodwin.....	229	vi	lakes, NEAR MINNITAKI LAKE,		
Turriff, J. J.....	62	A xv	R.R.D.		
Turtle lake, MONTREAL RIVER, NIP.			Gold prospecting on.....	71	viii
Description of.....	112	A xiii	lakes, E. OF MOSS TP., TH.B.D.		
Dolerites near.....	116, 117	A xiii		120, 121	v
lake, N. E. ARM, TIMAGAMI			lakes, MICHIPICOTEN DIV.		
LAKE, NIP.			Map of, sketch.....	184	A xv
Jaspilite on.....	167, 168, 173	x	Minor ref. to.....	294	A xiv
lake, R.R.D.			lake Mining Co.		
Govt. road to, from Mine Centre.	34	vii	Capital and date of charter.....	30	A xvi
portage, L. OF THE WOODS,			Twinlaw Cairns, NEAR GREENLAW,		
R.R.D.....	115	vii	SCOTLAND.....	187	i
			Two Harbors, L. SUPERIOR, MINN..	125	R C

	Page.	Vol.
Two Lakes Copper Mg. Co.		
Capital and date of charter.....	30	A xvi
Portages, The, ABITIBI RIVER.		
Character of river near.....	181	viii
Rocks at and near. 202, 205, 206, 210	A xiv	
Timber and soil near.....	204	A xiv
Waterpower at.....	208	A xiv
Sisters lake, ALG.		
Conglomerate on.....	177	A xvi
Tycoon Gold Mining Co.		
Capital and date of charter.....	10	viii
Work by, L. of the Woods.....	58	ix
Tyendinaga tp., HASTINGS CO.		
Black River formation in.....	27	B xiii
Tyler, Edwin		
Cement working by, Queenston.	108	i
<i>Tympanuchus americanus.</i> See Hen, prairie		
<i>Typha latifolia.</i>		
Abitibi dist.....	241	A xiv
Ottawa (near).....	225	x
Tyres. See Tires.		
Tyrrell, J. B.		
Ref. to surveys by, W. of Hudson bay.....	90	v
Tzosiak, D.	167	iii
Uhles pottery, EVANSVILLE, IND.		
Analysis of clay from.....	160	A xiii
Ulke, Titus		
Analysis by, Sudbury matte....	152	c xiv
Notes by, on iron range, Woman river.....	138	xi
Ref. to paper by, on refining nickel ores.....	219, 221	ix
<i>Ulmus americana.</i> See Elm, Ameri- can or swamp		
Umber (PAINT).		
Composition of.....	462	R C
Umptek, KOLAPEN, RUSSIAN LAPLAND.		
Analysis of tinguaita from..	189, 190	ix
Uncle Tom. See Thomas, U. H.		
Undal, NORWAY.		
Pyrites deposits at.....	192	A xvi
Ungava bay, LAB.		
Cod in.....	133	iv
Unicorn. See Narwhal.		
<i>Unio.</i>		
Don river.....	230	A xiii
Union, YARMOUTH TP., ELGIN CO.		
Artesian well in.....	128	i
apatite mines, W. PORTLAND TP., OTTAWA CO., QUE.		
Pockets in, showing bended structure.....	441	R C
Foundry and Machine Co.		
Labour employed by, statistics..	369	R C
Output of, 1893.....	120	ii
Iron Co.		
Iron smelting by, notes.....	399	R C
Jack Gold Mg. Co.		
Capital and date of charter.....	13	vii
Mining Co.		
Capital and date of charter.....	13	vii
Oil Company of Canada.		
Capital and date of charter.....	9	xii
Petroleum Co.		
Capital and date of charter.....	5	xii

	Page.	Vol.
United Alkali Co.	94	ii
	23	x
Gas and Oil Co.		
Expenses and receipts of, 1901..	42	xi
Formation of.....	20	x
Gas export of, prohibited.....	43, 45	xi
supply of, exhausted.....	22	A xiii
Taxation paid by, 1901.....	41	xi
1902.....	39	xii
Wells of, Essex co.....	116	A xiv
Pelee pt.....	20	x
Kent co.....	111	A xiv
Romney tp.....	26	A xiii
Kingdom. See Great Britain.		
Mines of Cobalt.		
Capital and date of charter.....	31	A xvi
Mining Co.		
Capital and date of charter.....	9	x
Work by, Lloyd a g. m.....	64	xii
Silver Co.		
Capital and date of charter.....	31	A xvi
States.		
Aluminium in, production, 1897.	217	vii
Arsenic imports, 1895-1900.....	112	xii
1903.....	32	B xiv
mining, absence of.....	102	xi
manufacturers in, list of.	122	xi
Artesian wells in, supply.....	52	i
Asbestos in, production, 1882-1892.	98	iii
Boundary line between, and Canada, position of, in L. St. Clair.....	108	v
Bricks in, compared with those of Ont.....	129, 130	iii
for pavements....	108-114	iii
	16-18	v
clays for, analyses..	120	iii
production, 1887.....	229	R C
sand-lime, industry....	vi	B xiii
Business depression in affects mining.....	8	i
relations of, with Can- ada.....	220, 221	R C
exports, 1881-1887... xvii		R C
imports, 1881-1887.	244-254	R C
(Ont.) 1869-1888.	211	R C
Carborundum, production of, 1897.....	216	vii
Cement in, consumption, 1901..	31	xi
1902... 34		xii
exports to Canada,		
1900.....	15	x
1901.....	33	xi
1902.....	34	xii
1903.....	35	xii
production, 1891....	30	xii
1901....	30	xii
standard of.....	169	A xiv
Charcoal in, cost of.....	341	R C
Coal in, royalty on.....	40, 41	i
Cobalt deposits in.....	71	B xiv
Copper production of, 1879....	371	R C
Corundum (and emery) in:— difficulty of obtaining statistics.	234	viii
occurrences.....	242, 243	viii
production, 1897-98.....	216, 249	vii
	237	viii
1900.....	39	xi

	Page.	Vol.		Page.	Vol.
United States.—Con.			United States.—Con.		
Diamonds in, notes by Blue. 120, 121	ix		Peat meal used in, amount of... 189	vi	
Ferro-molybdenum, production			Population of, 1892..... 122	ii	
of, 1899-1900..... 46	xi		Railways in, miles of, 1892..... 122	ii	
Glass-making in, mixtures for.			policy when subsidi-		
118, 119	xi		dising..... 399	R C	
Graphite works in..... 34, 36	vi		Royalties on minerals in, notes		
Gypsum deposits of..... 119	R C		by Raymond..... 38-43	i	
Iron (and steel, in :—			Technical education in :—		
average percentage of metallic. 87	ii		mining-schools 509-512	R C	
consumption, annual 83	ii		212, 213	i	
per capita, 1888. 369	R C		notes by Richards.. 417	R C	
duties on Canadian 18 A	xvi		notes by Mather..... 502, 509	R C	
furnaces, compared with Swed-			Cobalt Mining Co.		
ish..... 239	R C		Capital and date of charter..... 31 A	xvi	
number..... 125	ii		Glass Co. 122	i	
mining, 1891..... 237, 238	i		Gold Mg. Co.		
production, 1872-91..... 120	ii		Capital and date of charter..... 11	xi	
1876..... 224	R C		Gold mining by, Sturgeon Lake		
1880..... 86	ii		dist..... 256	xi	
1887..... 468	R C		85	xii	
1888 (Bessemer			Steel Corporation.		
steel)..... 366	R C		Huge properties of, L. Superior		
1888 (general).xviii, 224	R C		dist..... 21	xii	
1889..... 86	ii		Interested in International		
1890-1893 145, 146	iii		Nickel Co. 22	xi	
1901..... 322	xii		Iron and steel monopoly of..... 8 A	xiii	
1902..... 21	xii		University lake, DOG RIVER, L. SU-		
cost..... 10	i		PERIOR. 140	viii	
notes 342-344	R C		Mines, Ltd.		
royalty on 19, 40, 42	i		Capital and date of charter..... 30 A	xvi	
steel exported to England..... 34	x		silver mine, GIROUX LAKE,		
Mica mining in. increased activ-			NIP		
ity, 1900..... 135	x		Mining class at 52 A	xvi	
production and imports,			Notes on, and photos..... 85, 86 A	xv	
1881-91 244	i		Position of 7 A	xv	
Mineral production, 1887..... xvii	R C		Producing, 1906..... 8 A	xvi	
1888..... 525	R C		Profitable character of..... 9 A	xv	
compared with Canada,			Unwin—?		
1887..... 213	R C		Steel made by, with manganese. 363	R C	
Mining in, compared to mining			Upham, N. J. 105	x	
in Germany..... 509	R C		Warren		
laws and regulations. 278-285	R C		Quoted <i>re</i> L. Agassiz..... 202	v	
statistics, collection of.. 414	R C		101 B	xiii	
Molybdenum. <i>See above</i> , Ferro-			Views of, on glaciation in N. Y.. 238 A	xiii	
molybdenum.			Ont. 89,91	v	
Nickel in and to :—			Upper Canada Mg. Co.		
coinage..... 161	ii		<i>See also</i> Wallace copper m.		
164 c	xiv		Manganite on property of..... 202	ix	
composition..... 184	iv		Prospecting by, for copper, Doré		
evidence before Dingley Com-			river..... 206	vii	
mission 42-45	vi		Manitou lake. See Anzhe-		
statistics, consumption, 1893-			kumming lake.		
1899..... 215	ix		Marquette series. See Al-		
exports, 1890-94.... 177	iv		gonkian.		
production, 1876-91. 131	ii		Neepawa gold mine. See		
Nickel-steel, armour-plates..... 229	i		Neepawa gold mines		
136-138	ii		Onaping lake. See Onaping		
148-163	iii		lakes.		
185	iv		Slate conglomerate series.		
171-174 c	xiv		Notes on, by Coleman..... 159	viii	
heavy-ordnance..... 140	ii		Upsala prov., SWEDEN.		
Ochre imports of, 1903..... 170 A	xvi		Iron ore in. <i>See</i> Dannemora.		
Oil of, exports to Canada, 1906.. 24 A	xvi		Upton, A. B.		
quality, compared with oil			Manager, Stobie mine..... 268	xi	
of Ont..... 27	v		Option by, on Keenora Reduction		
superior..... 166	R C		works..... 98	xiii	
Peat-drying processes in..... 197	i		88	ix	
28 A	xiii				

	Page.	Vol.		Page.	Vol.
Upton, A. B.—Con.			Utica formation.—Con.		
Owner, Treasure g.m.....	38	ix	Grey co.....	48 B	xiii
Triumph g. m.....	57	vii	Lake Huron.....	86, 87	i
Work by, Black Jack g. m.....	43	ix	Manitoulin island, thickness... 72, 73	A	xv
Uraconite. See Uranochre.			Oil fields of Ont., section.....	97 A	xiv
Ural mts., RUSSIA.			thickness.....	96 A	xiv
Corundum in.....232, 235, 236		viii	Position of, in Silurian.....	2	R C
Diamonds in.....	122	ix	Prescott co.....	98 B	xiii
Iron ores in.....	473	R C	Russell and Simcoe cos.....108, 109	B	xiii
origin.....	52	ii	York co.....	126 B	xiii
Platinum in.....	143	vii	Mimico.....	138	i
Uraninite (PITCHBLEND).			Utoe island, SWEDEN.		
A source of radium.....	63 B	xiv	Iron ores of.....	472	R C
Bohemia and Saxony.....	61, 62 B	xiv			
Notes by Goodwin.....	218	vi			
Uranite.			V 4, 5 gold locs., NEAR JACK-		
Madoc tp., associated with iron..	37	ii	FISH, TH. B. D.		
Uranium.			Vaal river, S. AFRICA.		
Joachimsthal, Bohemia.....61, 63	B	xiv	Diamonds in.....	122	ix
L. Superior, N. shore, copper-			<i>Vaccinium capitosum.</i> See Blueberry.		
bearing rocks.....	131	vi	" <i>corymbosum.</i> See Cranberry.		
Notes by Miller.....232, 233		vii	" <i>oxycoccus.</i> See Cranberry, small-		
Schneeberg, Saxony, production..	89 B	xiv	fruted		
Uranochalcite, ANNABERG, SAXONY..	61 B	xiv	" <i>pennsylvanicum.</i> See Blueberry.		
Uranochre OR Uraconite.			" <i>uliginosum.</i> See Duckberry.		
Annaberg, Saxony.....	61 B	xiv	Vachell, GEORGINA TP., YORK CO.		
Madoc and Snowdon tps.....	194	ii	Limestone near.....	126 B	xiii
232, 233		vii	Vale of Neath, SOUTH WALES.		
211		ix	Analysis of anthracite from.....	5 Bull.	ii
Ure, Andrew			Valentine mica mine, McDougall		
Extract from Dictionary of, on:—			TP., P. S. D.		
furnace fuels.....	480	R C	Notes on, 1895.....	280	v
iron-smelting.....	475	R C	Mica Mining Co.		
peat-drying.....	195	i	Nickel mining by, Foley tp....	93	vii
Uren, W. C.	113	ix	See also Valentine mica mine.		
<i>Urinator imber.</i> See Loon.			<i>Valisneria spiralis.</i>		
Urine.			Ottawa, near.....	225	x
Analysis of, mixed with peat			Vallequette, Frank	203	R C
meal.....	192	vi	Valleyfield, BEAUHARNOIS TP., BEAU-		
Urquhart, J. H.	106	vii	HARNOIS CO., QUE.		
Ursa Major gold mine, NEAR JACK-			Peat bogs near.....	198	ii
FISH BAY, L. SUPERIOR.			Valtellina valley, ITALY.		
Depth of, 1899.....	35	ix	Asbestos in.....	96	iii
Notes on, 1898.....	95	viii	Vanadium.		
1899.....83, 84		ix	In titaniferous magnetites.....	211	ix
1900.....85, 86		x	Vanbruyssels, Ferdinand	236	i
Photos of.....112, 113		ix	VanBuren, HANCOCK CO., OHIO.		
<i>Urtica gracilis.</i>			Cincinnati anticline near.....	116	i
Abitibi Lake dist.....	241 A	xiv	Van Camps, MOUNTAIN TP., DUNDAS		
Usher, Isaac			CO.		
See also Queenston cement works.			Limestone in, Calciferous.....	46 B	xiii
Cement worked by, 1901.....	32	xi	quarrying.....	40 B	xiii
1902.....	31	xii	Vancouver, NEW WESTMINSTER DIST.,		
1903.....	18 A	xiii	B. C.		
1905.....	18 A	xv	First train to, from Montreal ...	171	v
analysis....	183 A	xiv	Sulphuric acid plant at.....	200 A	xvi
plant, notes			Zinc-blende near.....	210	vi
on.....	163 A	xiv	island, B. C.		
Queenston quarry leased by.....	108	i	Chalcopryite in.....	117	viii
and Son. See Usher, Isaac			Van der Meulen, R. C.	32	viii
Utah, U. S.			Van Evera, J. R.	118	ix
Galena deposits of, ref. to... ..	460	R C		144	x
Mining laws of.....	283	R C		75	xi
Utica, ONEIDA CO., N.Y.			lake, MICHIPICOTEN DIV.,		
Treaty of Ghent signed at.....	108	v	ALG.		
Utica formation named after....	42	R C	Cherts near.....	317 A	xiv
Utica formation (CAMBRO-SILURIAN).			Iron formation near.....	317 A	xiv
Character and distribution of... ..	42	R C			
Durham co.....	41 B	xiii			

	Page.	Vol.		Page.	Vol.
Van Hise, Charles R.			Van Sommer, J. See Eagle Nest Gold Mg. Co.		
Notes by, on exhaustibility of iron S. of L. Superior... 24	xi		Vanstone, Richard		
Report by (and others) on Pre-Cambrian nomenclature... 269-277	A xiv		Salt manufacturer. See Gray, Young & Sparling.		
Surveys by, N. of Great Lakes, ref. to... 158-161	viii		<i>Vanuxemia tomkinsi</i> .		
S. of Great Lakes, ref. to. 154	vi		St Marys 152	xii	
151	ix		Van Winkel, Herbert 37	A xv	
196, 197	x		Varallo, Piedmont, Italy.		
258	A xiv		Nickel from..... 146	C xiv	
Terminology by, of American iron ranges, ref. to 155	xi		Varley, J. E. 103	x	
Views of, re:—			149	xi	
break in Huronian 185	ix		84	xii	
Couchiching series, ref. to ... 151	vii		Patrick 48	viii	
iron ore, Helen mine, genesis. 311	A xiv		Varnishes.		
N. of L. Superior... 25, 143	xi		Graphite for 14	ix	
Penokee range 199	x		Vars, Harry 60	ix	
Steep-rock Lake series..... 158	vii		Varty, Neuty 260	vi	
Laurentian system 194	v		Vary, G. R. 68	A xiii	
159	vii		45	A xv	
Van Horne, Sir William C. 22	x		Vaseline.		
tp., R. R. D.			As a residue of petroleum... 155, 163	R c	
Gold mining in, 1897..... 77, 124	vii		Vasey—? 274	xii	
1903..... 66	A xiii		195	A xiii	
1906..... 59	A xvi		Vaughan, L. S. 124	vii	
See also Gold Moose g.m.			Vaysi, Matti 33, 35	A xvi	
Redeemer g.m.			Vear, James 51	ix	
prospecting, 1904..... 51	A xiv		Vegetables.		
Van Kleeck, Peter 92	vii		Mentioned as growing at:—		
Vankleek Hill, Hawkesbury W. TP.,			Abitibi lake..... 50	A xvi	
PRESCOTT CO.			Dinorwic 182	vii	
Limestone quarry near 99	B xiii		Fort Matachewan 240	A xiv	
Saugeen clay worked at..... 34	B xv		Fort Mattagami..... 121	A xiii	
Vankoughnet, Hugh			Garden River (near) 197	viii	
Accident to 32	ix		Goulais River valley 198	viii	
claim, NEAR PARRY SOUND... 32, 168	ix		Insecticide for, formulae of 117	xi	
farm, " 178	ix		Kamiskotia lake..... 119, 151	A xv	
tp., ALG.			Lac des Mille Lacs 114	v	
Copper mining in 101	xii		Lac Seul..... 62	v	
Galena in 60	R c		Michipicoten 13	Bull. iii	
Vanluven's mills, Storrington TP.,			Mississagi river..... 164, 167	xii	
FRONTENAC CO.			Moose Factory..... 107	iv	
Chazy formation at 60	B xiii		New Post, Abitibi river 186	viii	
Van Norman, Benjamin			Night-hawk lake..... 123	A xiii	
Early iron-smelting by 320	R c		Rainy river..... 163	v	
Benjamin			Redstone river..... 107	A xiii	
Miner at Belmont g.m. 53	xi		Veins. See Mineral veins.		
D. D. 150	vi		Vendome, Tony 55, 57	xi	
G. R.			Venetian enamels.		
Notes by, on his father's iron works..... 320, 321	R c		Analysis of 120	xi	
Joseph			red.		
Iron mining by, Norfolk co. (1822)... 320	R c		L. of the Woods 64	R c	
smelting by, Marmora. . 321-323, 326, 327	R c		Venezuela.		
14, 20, 21	ii		Dispute between, and British		
Norfolk co... 113	i		Guiana 191	v	
13	ii		Nickel coinage in 161	ii	
142	xi		164	C xiv	
Van Sickle, W. B. 105	viii		Vennor, H. G.		
118	ix		Boring for apatite advocated by. 238	i	
144	x		Gold first recognized by, Madoc		
75	xi		tp..... 27	R c	
Vansickle, Lake TP., Hastings Co.			Notes by, on Richardson g.m. . . 39	iv	
Rocks at and near. 194	xi		Ref. to "blotched diorites" of. 189	xi	
			surveys by, Frontenac co. 45	B xiii	
			78	A xvi	
			Hastings co.... 38, 39	iv	
			198	xi	
			93	B xiii	

	Page.	Vol.	
Vennor, H. G.—Con.			
Section by, of Madoc-Marmora dist.....	106	R C	
Thickness given by, of apatite-bearing rocks of Ont.....	437	R C	
Vera Mining Co.			
Capital and date of charter	37 A	xiii	
Verandrye, Pierre G. de			
Fort St. Pierre built by	162, 197	V	
Verd=antique marble.			
Description of.....	544	R C	
Verein Chemischer Fabriken, MANN-HEIM, GERMANY.			
Sulphuric acid made by	195 A	xvi	
Vereintgt Kobaltfeld.	89 B	xiv	
Vermicide.			
Arsenic as.....	114-117	xi	
Vermilion. See Mercury.			
Bay Mines Co.			
Capital and date of charter	38 A	xiii	
dist., U.S.			
Geological nomenclature of.....	271, 272 A	xiv	
iron range. See Minnesota Vermilion range.			
lake, TIMAGAMI REG., NIP.			
Geological notes on, by Miller...	169, 170, 173	X	
Iron pyrites from, assay	180	X	
Jaspilite on, photo.....	176, 177	X	
lake, VERMILION RIVER, SUDBURY DIST.			
Farm land on.....	105 C	xiv	
Faulting near	133 C	xiv	
Galena on	91	i	
Iron pyrites mining on, notes by Fraleck.....	176, 177 A	xvi	
Ores of, notes by Stetzner.....	17 C	xiv	
Photo of.....	124, 125	vii	
Rocks on and near	194 A	xiii	
	95-97 C	xiv	
Shores of, character.....	6 C	xiv	
Similarity of, to Onwatin lake...	5 C	xiv	
Zinc-blende on	91	i	
lakes, R. R. D.			
Clay near.....	182	vii	
Country south of, character.....	176	vii	
Geology of and vicinity.....	168, 170	vii	
Mineralized veins on	178	vii	
Rocks on and near.....	180	vii	
	sandstone.....	173	vii
(OR McConnell) mine, DENISON TP., SUDBURY DIST.			
Area of.....	309	R C	
Cassiterite in	193	ii	
	36	iv	
	211	ix	
	162 C	xiv	
with sperrylite.....	190	ii	
	280, 284	xii	
Copper in, bornite and chalcocite. 161 C		xiv	
evidence before R. C.....	104, 105	R C	
notes by Merritt.....	88, 89	R C	
Evidence before R. C...112, 113,	425	R C	
Faulting near	24 C	xiv	
Gangue minerals in	163 C	xiv	
Gersdorffite in.....	19 C	xi	

	Page.	Vol.
Vermilion mine.—Con.		
Gold in.....	112, 205	R C
	92	i
	162 C	xiv
notes by Bell	26	R C
Merritt	108	R C
Millerite in.....	159 C	xiv
Niccolite in.....	19 C	xiv
Nickel ores in	90	i
Ores of, connected with Victoria mine.....	29 C	xiv
notes by Stelzner	278	xii
origin.....	273, 280	xii
Platinum in.....	113, 181	R C
	92	i
	153 C	xiv
sperrylite.....	178	ii
	207	vi
	209	ix
	283	xii
	5 A	xiv
	161 C	xiv
with tin	190	ii
	284	xii
Polydymite in	207	ix
	159 C	xiv
ferriferous	168	ii
Rare minerals in.....	155 C	xiv
Re-opened, 1904, notes on	71 A	xiv
Rocks in and near.....	66, 434	R C
	272	xii
greenstone.....	76	i
	81 C	xiv
notes by Coleman.....	31 C	xiv
off-set deposits.....	25 C	xiv
Surface appearance of, promising.	24	R C
Tin in. See above, Cassiterite.		
Workings of, notes on old	142	vii
Mining Co.		
Capital and date of charter	13	vii
Evidence re, before R.C.....	113	R C
Merged in International Nickel Co.....	21	xi
	140 C	xiv
Work by, in Denison tp. 24, 425,	434	R C
river, SUDBURY DIST.		
Agricultural land in valley of ...	207	v
Anticlines on	97 C	xiv
Character of	5 C	xiv
Clay flats on	193 A	xiii
	105 C	xiv
Glaciation on	104 C	xiv
Gravel plains on	219 A	xiii
Gold on and near	108	R C
	4	i
alluvial.....	90	xii
map shewing areas..... Facing	256	vii
paper by Gracey.....	256-259	vii
report by Coleman.....	151-159	x
Lumbering on	119	iv
Mineralized veins on	178	vii
Muskegs on.....	202 A	xiii
	32, 37 C	xiv
Notes on, by Coleman.....	207 A	xiii
Rocks on and near	86	i
	170	vi
	73 C	xiv
Cambrian	204	v
conglomerate	94 C	xiv

	Page.	Vol.		Page.	Vol.
Vermilion river.—Con.			<i>Viburnum cassinoides.</i>		
Rocks on and near.— <i>Con.</i>			Abitibi Lake dist.....	241 A	xiv
diabase.....	76	i	“ <i>opulus.</i> See Cranberry, high bush		
granite	85 C	xiv	<i>Vicia cracca.</i>		
Huronian	83 C	xiv	Mattagami valley.....	150 A	xv
norite belt.....	65	R C	Vick, J. B.	111	ix
sandstone	169	vi	Vickers, Albert See Vickers & Co.		
photo.....	242	xii	J. J.	77	v
slate, carbonaceous.....	206 A	xiii	Thomas		
Sand plains along ...	99 C	xiv	Nickel-steel armour plate made by	143	ii
Surveys on, by Burwash, notes..	95 C	xiv	and Co.		
Terraces on and near	202 A	xiii	Armour plates of.....	143	ii
altitude.....	168	vi	150, 151, 155		iii
Waterpower on	103, 106 C	xiv	Victor Gold Mining and Develop-		
photo of plant	211	x	ment Co.		
river, VERMILION LAKE, R.R.D.	252	vii	Capital and date of charter.....	10	ix
Notes on, by Parks.....	10 A	xiv	Victoria, AUSTRALIA.		
River Ore Co.	13, 62 A	xv	Boring in, for coal, iron and gold.		
Capital and date of charter	68 A	xiv	164, 165		iii
series. See Ely greenstone.	72 C	xiv	Govt. aid to..	238	i
Vermland prov., SWEDEN.			44, 45		x
Peat in.....	219	ii	Mineral lands in, ownership of.		i
Vermont, U. S.			Mining schools in. See Ballarat and Bendigo.		
Marbles of, durability.....	80	R C	Mining laws of, notes by Royal Commissioners.....	291-293	R C
for tombstones.....	12 B	xiii	Royalties in.....	45	i
Vernon, George H.	59 A	xv	Victoria, MICH.		
Vernon, OSGOOD TP., CARLTON CO.	60 A	xvi	Boring at, for iron.....	225	v
Calciferous formation at.....	46 B	xiii	Victoria, WELAND CO.		
Verona, PORTLAND TP., FRONTENAC CO.			Gas supplied to, from Humberstone... ..	133	i
Feldspar mining near. (<i>See also</i> Border, Richardson and Worth feldspar mines; <i>also</i> Kingston Feldspar Co., and Kingston Mining and Development Co.).	90 A	xiii	avenue, BELLEVILLE. See Provincial Assay office.		
45, 46 B	xiii		cape, JACKFISH BAY, L. SUPERIOR.		
81 A	xiv		Gold at, discovery.....	26	R C
102 A	xv		See <i>also</i> Jackfish bay.		
21, 86 A	xvi		Cement and Power Co.		
Limestone near, analysis.....	45, 46 B	xiii	Capital and date of charter.....	24 A	xiii
Mg. Co.			co.		
Capital and date of charter.....	31 A	xvi	Favourable region for charcoal smelting	395	R C
Feldspar producing, 1906.....	21 A	xvi	Iron ores of, chromium in.....	233	vii
<i>Veronica scutellata.</i>			Limestone in, notes by Miller... ..	112 B	xiii
Abitibi Lake dist.....	241 A	xiv	galena mine, NEAR SAULT STE. MARIE, ALG.		
Mattagami valley.....	150 A	xv	Galena in.....	198	ix
Verrault, J.	39 A	xiii	Litigation <i>re.</i>	67	R C
Verry, George R.	80	x	Notes on, by Bell.....	29	R C
Versmann's peat process.	216	ii	Coleman	123	viii
Verte island, NIPIGON BAY, L. SUPERIOR.			Skewes.....	147	R C
Sandstone quarry at.....	74, 79, 235	R C	Photo of.....	136, 137	viii
Vestor house, N. OF BLENHEIM, KENT CO.			Rocks near.....	163	viii
Gas flow at.....	125	i	Zinc-blende in.....	30	R C
Vesuvianite.			Gold Mining Co.		
Analysis and occurrences.....	211	ix	Capital and date of charter.....	13	vii
Apatite dists.....	442	R C	iron mine, GLAMORGAN TP., HALIBURTON CO.		
Robert bay.....	81 B	xiii	Analysis of ore from.....	62	ii
Vesuvius Iron Mill, PITTSBURG.			island, L. SUPERIOR.		
Labour employed by, statistics..	370	R C	Beaches opposite.....	175	ix
			Rocks opposite.....	147	ix
			lake, NEAR GARDEN RIVER, ALG.		
			Rocks on.....	123	viii

	Page.	Vol.		Page.	Vol.
Victoria lake, N. OF IGNACE, R.R.D.			Victoria (McKINNON) quarry, MADOC		
Pleistocene deposits near.....	172	vii	TP., HASTINGS CO.		
Timber near.....	180	vii	Evidence <i>re</i> , before R. C.....	80	R C
Mining Co.			Notes on and analysis.....	61	B xiii
Capital and date of charter.....	7	vi	Road, BEXLEY TP., VICTORIA		
	13	vii	CO.		
Mining Co. (COBALT). See			Cement works near.....	32	xii
Foster silver mine.				17	A xiii
(McCONNELL) nickel mine,			Peat works near. <i>See</i> Trent Valley		
DENISON TP., SUDBURY DIST.			Peat Fuel Co.		
Accidents in, 1900.....	46	x	Silver Cobalt Mines.		
1901.....	56, 57	xi	Capital and date of charter.....	31	A xvi
1902.....	43, 44	xii	tp., ALG.		
1903.....	39	A xiii	Copper in.....	23	xi
1905.....	33	A xv	Victory gold mine, TRAFALGAR BAY,		
1906.....	34, 35	A xvi	MANITOU LAKE, R.R.D.		
Aerial cable of, photo.....	144, 145	x	<i>See also</i> Manitou Mines Co.		
Boring in, with Govt. drill....	53, 46	x	Minor ref. to.....	122	vii
Closed down.....	258	xi	Notes on, 1906.....	44	A xvi
	59, 82	A xiii	Work suspended.....	59	A xvi
Geology, plans and sections of.			gold mine, WITCH BAY, L. OF		
	268-273	xii	THE WOODS.....	59	xi
	25-28	C xiv	Vienna, BAYHAM TP., ELGIN CO.		
Gold in.....	31, 162	C xiv	Corniferous limestone in.....	41	B xiii
Matte from, analysis.....	152	C xiv	Vignuda, Guiseppe	35	A xiv
Mining class at.....	58	xii	Vigsnaes pyrites mine, NEAR STAV-		
Minor ref. to.....	17	xii	ENGER, NORWAY.		
Not included in International			Rocks of.....	192	A xvi
Nickel Co.....	22	xi	Viking gold mine, EAGLE LAKE,		
Notes on, 1897.....	141	vii	MANITOU LAKE DIST., R.R.D.		
1901.....	283, 284	xi	Minor ref. to.....	49	xii
1902.....	123, 125, 287	xii	Notes on, 1900.....	96	x
1903.....	86	A xiii	1902.....	93	xii
1904.....	71, 72	A xiv	1903.....	65, 66	A xiii
1905.....	65, 66	A xv	Work on, 1901, intermittent....	244	xi
1906.....	66, 67	A xvi	Viking Mining Co.	65	A xiii
Plan of, <i>See above</i> Geology, plans			Villanova, TOWNSEND TP., NORFOLK		
and sections.			CO.		
Plant of, leased to Canadian Cop-			Fossil corals from.....	142, 143	xii
per Co.....	69	A xiv	Limestone quarry at.....	88	B xiii
modern.....	142	C xiv	Ville Marie. See Baie des Pères.		
smelter, photos.....	96, 97	x	"Ville Marie" s.s.	248	A xiv
	96, 97	xii	Villeneuve, P. C. J. B. de Silvestre.	165	i
	24	C xiv	mica mine, VILLENEUVE TP.,		
re-opened.....	68	A xiv	OTTAWA CO., QUE.		
Platinum in. <i>See below</i> , Sperry-			Selwyn's views on....	68	R C
lite.			Uraninite in.....	218	vi
Production of.....	156	C xiv	tp., OTTAWA CO., QUE.		
1904.....	10	A xiv	<i>See also</i> last ref.		
1905.....	12	A xv	Mica of, quality.....	150	R C
Rare minerals in..	155	C xiv	Vincent, John	40	iv
Rocks in and near.....	24-27	C xiv	William.	39, 79	A xv
gabbro.....	295	xii	Vinemount, HAMILTON.		
gossan.....	31	C xiv	Limestone from, quality.....	126	B xiii
granite.....	83	C xiv	Viola blanda.		
greenstone.....	81	C xiv	Abitibi Lake dist.....	241	A xiv
greywacké.....	88	C xiv	Mattagami valley.....	150	A xv
norite.....	112	C xiv	<i>canina.</i>		
offset deposits.....	13, 114, 163	C xiv	Mattagami valley.....	150	A xv
slate.....	93	C xiv	<i>canina</i> var. <i>muhlenbergeri.</i>		
syenite.....	433	R C	Mattagami valley.....	150	A xv
Sperrylite in.....	280, 283	xii	<i>palnata</i> var. <i>cucullata.</i>		
	5	A xiv	Mattagami valley.....	150	A xv
	31, 171, 162	C xiv	<i>rotundifolia.</i>		
Work at, 1900.....	124, 125	x	Abitibi Lake dist.....	241	A xiv
1901.....	21, 65	xi	Violet gold mine, L. OF THE WOODS,		
1905.....	47	A xv	R. R. D.....	96	xii
Worked by Mond.....	142	C xiv			

	Page.	Vol.		Page.	Vol.
Violet Mining Co.			Voerman, —?		
Capital and date of charter.....	30	A xvi	On charcoal fuel for iron smelt- ing.....	480	R C
See also Handy silver mine.			Vogt, Prof. J. H. L.		
nickel mine. See Lady Violet mine.			Comparison by, of Canadian and Norwegian nickel ores.....	283	xii
silver mine, COLEMAN TP., NIP.			Notes by, on Norway nickel ore. Sudbury gabbro....	154 c 118 c	xiv xiv
Notes on, 1905.....	80	A xv	Quoted <i>re</i> nickel production.....	182	iv
Shipping, 1905.....	15	B xiv	Theory of, for Norwegian nickel ores.....	278	xii
1906.....	8	A xvi	applied to Sudbury.....	17	c xiv
Violette, Charles			Views of, <i>re</i> Sudbury deposits....	236	xii
Analysis by, of wood charcoal... 166	vi		Work by, on Scandinavian nickel deposits, <i>ref. to</i>	52 3	iv c xiv
<i>Tirro olivaceus</i> (RED-EYED).			Volcanic action.		
Abitibi dist.....	243	A xiv	As a cause of mineral veins.....	252	v
“ <i>solitarus</i> (BLUE HEADED).			Oil and Gas Co.		
Abitibi dist.....	243	A xiv	Operating, 1906.....	97	A xvi
Virgin falls, NIPIGON RIVER, TH. B.D.			Reef Co.		
Rocks near.....	133	A xvi	Capital and date of charter.....	5	xii
islands, L. NIPIGON, TH. B. D.	107	A xvi	Reef gold mine, MUD LAKE, MANITOU LAKE DIST., R.R.D.		
Virginia, GEORGINA TP., YORK CO.			Minor <i>ref. to</i>	4	A xiv
Arsenic plant in.....	31	B xiv	Notes on and photo.....	42, 52, 53	A xiv
Virginia, U. S.			tuff.		
Iron pyrites in, notes by Fra- leck.....	192	A xvi	Porcupine lake, Alg.....	120	A xiii
Limestone in.....	126	B xiii	Volkes, D.		
Natural gas in.....	115	i	Brick-yard of, Comber.....	63	B xv
gold mine, STURGEON LAKE, L. OF THE WOODS. See Lizzie mine.			Volney, Dr. C. W.		
Mining Co.			Inventor of Volney blasting pow- ders.....	152	A xvi
Gold mining by. See Lizzie mine.			Paper by, on occurrences and analyses of lithographic stone. 180-184		ii
Mica mining by, near Edgington.	98	vii	<i>ref. to</i>	137	iii
Vitreous copper. See Chalcocite.			Von Cotta, H.		
silver. See Argentite.			Notes by, on Joachimsthal dist., Bohemia.....	62	B xiv
Vitrified brick. See Brick, vitrified			Feilitzen, H.		
Vitriol. See Sulphuric acid.			Experiments by, on moss-litter..	140	iii
Vivian, Sir Hussey Herbert			Hagen Co. See Hugo Von Hagen Exploration Co.		
See also Vivian H. H. & Co.			Leepin, Prof.		
Notes by, on Rio Tinto and Thar- sis copper mines.....	372, 373	R C	Mobyddenum suggested by, for hardening steel.....	46	xi
On smelting ores.....	374, 375	R C	Voss Mining Co.		
Sampson			Capital and date of charter.....	10	viii
Bruce mines worked by, 1853....	96	R C	“ Voyageur ” s.s.....	30	x
H. H. & Co.			Vulcan Forge and Iron Works.		
Accident at mine of, 1893... 167, 176	iii		Labour employed by, statistics..	370	R C
Alkaline sulphide process em- ployed by.....	220	ix	iron mine, N. OF BATCHAWANA BAY, ALG.		
Boring by, with Govt. drill... 53, 56	x		Notes on, by Coleman.....	162	ix
Cobalt ores smelted by.....	103	A xiii	190	x	
Losses of, 1893-4.....	179	iv	205	x	
Murray mine worked by.....	434	R C	Rocks of.....	205	x
1891.....	231	i	Reduction and Refining Co.		
1892.....	246	ii	Capital and date of charter.....	9	xii
1893.....	186, 187	iii			
1894.....	122	iv			
notes.....	141	C xiv			
See also Murray mine.					
Nickel alloy of, analysis.....	184	iv			
Not included in International Nickel Co.	22	xi			
Plant of, at Swansea, Wales, <i>ref.</i> to.....	67	R C			
236	i				
Smelter of, Sudbury, capacity... 435	R C				
Work by, at Sudbury, 1899.....	xxiii	R C			
Vivison, R. E.	105	A xv			
Vladimir prov., RUSSIA.					
Peat in.....	217, 218	ii			

	Page.	Vol.
WA 3, 4 gold locs. <i>See</i> Trojan mine.		
7-9 gold locs. <i>See</i> Sentinel mine.		
Waal river, HOLLAND.		
Brick kilns along, peat used in..	216	ii
Wabash valley, INDIANA.		
Gas of, salt water with	154	i
Wabasistagenda (WAPESENCEA-KENDA) lake, E. OF MATTAGAMI RIVER, ALG.		
Description of.....	182	x
Wabatongusheen lake, MICHIPICOTEN DIV.		
Headwaters of Michipicoten river.....	187	vii
Length of.....	7 Bull.	iii
Minor ref. to	176 A	xv
Notes on, by Willmott.....	197, 198	vii
Photo of portage near.....	140, 141	vii
Rocks on	250	v
Surveyed, 1895.....	243	v
Swamp near, height of	9 Bull.	iii
	205	vii
Wabegashic rapid, GROUND-HOG RIVER, ALG.	133	ix
Wabi bay, L. TIMISKAMING, NIP.		
Minor ref. to	36 B	xiv
Rocks on and near	85-87 B	xiii
Cobalt Silver Mg. Co.		
Capital and date of charter	30 A	xvi
creek, WABI BAY, L. TIMISKAMING.....	35 B	xiv
pt., L. TIMISKAMING.	<i>See</i> Dawson pt.	
Wabigoon, ZEALAND TP., R.R.D.		
Gold mining near.....	124	vii
Granite near, intrusive	279	viii
Minor ref. to	121	vii
Road from, to Mine Centre.....	49	viii
Minnitaki lake ..	70	viii
Route from, to		
description.....	171, 172	vii
Slate near.....	86	iv
Free Milling Gold Mg. Co.		
Capital and date of charter.....	13	vii
gold mine, WABIGOON LAKE, R.R.D.		
Copper pyrites in	37	iv
Notes on, by Coleman.....	67	iv
lake, R.R.D.		
Agricultural land near.....	118	iv
	92	v
Ducks on	97	iv
Glaciation on.....	101 B	xiii
Gold mining near. <i>See</i> Manitou Lake dist.		
Huronian near.....	171	vii
Iron ore E. of.....	20, 22	R C
	136	xi
Map of district of	With Vol.	iv
Notes on, by Coleman.....	67	iv
Quartz from, assay.....	180	vii
test on.....	230, 231	iv
Rice (wild) near.....	96	iv
Route from, to Lac Seul.....	53-55	v
Surveyed by Coleman, 1895.....	3	v

	Page	Vol.
Wabigoon river, WABIGOON LAKE, R. R. D.		
Agricultural land along.....	207	v
Dam on, built by Govt. .34, 121,	125	vii
Soil in valley of.....	182	vii
Surveyed by Coleman, 1895.....	3	v
Waterpower on	118	iv
	252	vii
	14 A	xv
Tank, WABIGOON LAKE, R.R.D.		
Mission station at	54	v
Moraine north of.....	90	v
Vegetables and oats at.....	62	v
Wabinosh bay, L. NIPIGON, TH.B.D.		
Limestone at.....	111 B	xiii
Wabiskagami lake, WABISKAGAMI RIVER, MISSINAIBI RIVER.		
Clay on, kaolinic.....	xii A	xiii
Minor ref. to	136 A	xiii
Rocks on.....	142 A	xiii
ferruginous limestone..	156 A	xiii
river, MISSINAIBI RIVER, ALG.		
Description of, by J. M. Bell.	136, 137 A	xiii
Erosion by, in two cycles	147 A	xiii
Forest fires on.....	177 A	xiii
Rocks on.....	138 A	xiii
gneiss, petrography ...	139 A	xiii
lignitic shales.....	143 A	xiii
Waboose island, DOG LAKE. <i>See</i> Rabbit island.		
river, MISSINAIBI RIVER, ALG.	194	viii
Wad. <i>See</i> Bog manganese.		
cobaltiferous <i>See</i> Asbolite.		
Waddell, Dr. J.		
Analyses by, of Cobalt ores.....	99 A	xiii
	21 B	xiv
lake, NORMAN TP., NIP.		
Copper on.....	434	R C
Minor ref. to	74 C	xiv
Nickel on.....	434	R C
	284	xi
Shape of, conforms to strike of rocks	102 A	xiii
	73 C	xiv
Waddie, H. J.	99	xi
Wadsworth, Dr. E. M.		
Views of, <i>re</i> origin of Mesabi ore deposits.....	198	x
Waffle, William.....	52	xi
Wager, Leonard		
Iron ore shewn by, at World's Fair.....	82	ii
Notes by, on iron at Tamworth..	133	R C
Wages.		
Details of, paid in the mining industry:—		
1894.....	13-15, 20, 25,	28 iv
1895.....	12, 18-20, 28,	29 v
1896.....	16, 24, 22, 40,	47 vi
1897.....	16, 19, 24-26,	29 vii
1898.....	13, 17-23	viii
1899.....	18, 19	ix
1900.....	31, 36, 37, 41	x
1901.....	14, 19, 20, 26,	36 xi
1902.....	14, 17-19, 22, 37-40	xii
1903	5-7, 10, 19-24 A	xiii
1904	4, 5, 11, 14, 18-20 A	xiv

	Page.	Vol.		Page.	Vol.
Wages.—Con.			Wakefield mica mine, N. BURGESS		
Details of, paid in the mining industry.— <i>Con.</i>			TP., LANARK CO.		
1905.....	4, 8, 13, 16, 19-22	A xv	Notes on.....	245	i
1906.....	7, 11, 15-17, 21-25	A xvi	tp., OTTAWA CO., QUE.		
Iron mining, 1890.....	135	R C	Apatite deposits in.....	178, 436	R C
Wagner, D.			Wakwayowkastik river, FRENCH		
Analyses by, of fossil fuels.....	184	i	RIVER, MOOSE RIVER.		
Frederick.....	55	viii	Ascended by Parks, 1898.....	192	viii
George.....	263	xi	Gypsum at mouth of.....	158	A xiii
	71	A xv	Walbank, Samuel Sedden	174	ii
Wagstaff, A. H.			Walcott, C. D.	269	A xiv
Brick works of, notes and photo.	109	B xv	Wales.		
analysis of clay used in.....	8	B xv	Cambrian in, and called after...	31	R C
Wahbakhimmung lake. See White-			Coal in, royalty on.....	36	i
earth lake.			Copper smelting in, notes on....	374	R C
Wahnapiitae Gold Fields Co.			Gold in, with zinc-blende.....	45	i
Capital and date of charter.....	10	viii	Iron industry of, foreign ores		
Mining Co.			used in.....	121	ii
Capital and date of charter.....	13	vii	Nickel refinery in. <i>See</i> Swansea.		
Navigation Co.	87	vii	Peat bog in, worked for copper .	206	ii
Power Co.			farm, LEAMINGTON, ESSEX CO.	116	A xiv
Power from, for Sudbury dist....	29	A xvi	Walker, Byron E.		
Work by, 1905: photo of plant.62,	63	A xv	Acknowledgments to.....	183, 191	A xiii
1906.....	67	A xvi	Determination by, of fossils		
Wahnapiitei. See Wanapiitei.			from:—		
Waide Bros.			Lac Seul.....	92	v
Brick-yard of, London, Ont.....	29	xii	Lake Superior, N. shore ..	156	viii
	81	B xv	Port Colborne.....	35	xi
Wainfleet Natural Gas Co.			Evidence by, before R. C. <i>re</i> :—		
Capital and date of charter.....	31	A xvi	Geological Surveys... 411	480	R C
tp., WELLAND CO.			phosphates.....	180	R C
Limestone in.....	35	xi	Hiram		
	119	B xiii	Artesian wells of, Walkerville... 59	i	
thickness.....27,	28	A xv	Boring by, for gas, Marshfield ..	120	i
Natural gas in.....131,	132	i	President, Natural Gas and Oil		
	108	A xv	Co.....	28	v
boring for..... 105,	106	A xiv	Salt well of, Oxford tp., notes on.	33	vi
<i>See also</i> Winger.			J. E.		
Peat in.....	191	i	Sulphur mining by, near Schreiber.....	89	x
	33	iv	J. W.	118	ix
<i>See also</i> Welland peat bog.			R.		
Wainwright tp.			Gold mining by, near Jackfish..	266	vi
Agricultural land in.....	182	vii	Mackenzie sta. 39	x	
Wait, F. G.			Robert E.		
Analysis by, of:—			Gas well of, Caledonia.....	252	iv
anthraxolite, Lab.....	162	vi		283, 284	v
limestone, Chalk lake.....	90	B xiii	Notes by, on same.....	281	vi
Colborne tp.....	67	B xiii	Dr. T. L.		
Lavant tp.....	71	B xiii	Acknowledgments to.....	229	viii
Ottawa Front.....	38	B xiii		135	A xv
Renfrew co....106,	107	B xiii	Analyses by, of Sudbury matte..	283	xii
marl, Artemesia tp.....	51	B xiii		152	C xiv
Eramosa tp.....	122	B xiii	ores.117,	158	C xiv
Mackay lake.....	39	B xiii	rock	289	xii
Sheffield tp.....	28	B xiii	86, 116, 117,	120	C xiv
White lake, Hastings co.	66	B xiii	Notes by, on rocks of Blezard		
Waite, Thomas	85	R C	mine.....	56	C xiv
Wakefield, Edward			References to paper by, Sudbury		
Brick-making by, Carlton West.	107	B xv	nickel deposits.....236, 239,	240	xii
Wakefield, YORKSHIRE, ENGLAND.			References to surveys by, Sud-		
Portland cement made at.....	118	A xiv	bury dist... 241, 251, 254, 293,	296	xii
Brick Co.			204, 205,	208	A xiii
Brick making by, Carlton West.	29	xii	views of, Sudbury		
	107	B xv	eruptives.. 276,	277	xii
Mica Co.			T. R.	241	ii
Capital and date of charter.....	37	A xiii	Thomas George		
			Peat drying process of, notes....	198	i
			W.	49	A xiii

	Page.	Vol.		Page.	Vol.
Walker and Brown.			Wallace copper mine.—Con.		
Gold prospecting by, near Jack-			Notes on	123	R C
fish	81	vii		63	ii
Pioneers, The New Klondike ...	78	vii	Rocks in, strike of.....	91	R C
	72, 73	viii	Rutile in	208	ix
& Co.	191	R C	<i>See also</i> Upper Canada Mg. Co.		
& Logan.			tp., PERTH CO.		
Brick-yard of, London, Ont.....	81	B xv	Fossils in, on surface	91, 95	B xiii
Bros.			Wallaceberg, KENT CO.		
Quarrying by, Stamford tp.....	96	i	Coal near, boring for.....	44, 45	A xiii
Thorold	28	xii	Wallbridge, Campbell <i>See</i> Wall-		
=Carter Process.			bridge iron mine.		
Test of, Marmora.....	56-60	iii	H. H.		
feldspar mine, PORTLAND TP.,			Evidence by, before R. C. <i>re</i> :—		
FRONTENAC CO.			Canada's mining market.....	234	R C
Notes on, 1902	138	xii	iron, Madoc tp.....	133	R C
Gas and Oil Co.			smelting, Sweden.....	393	R C
Oil prospecting by, Bothwell			Mrs. Jane A.		
field.....	21	vi	Iron ore shown by, at World's		
	109	A xiv	Fair	80, 82	ii
Oil producing	24	vi	Owner, Miller iron mine, Madoc		
Work by, 1907.....	18	vii	tp.....	32	viii
island, L. HURON.			W. H.	64	ix
Trap rock quarrying on	13	v	iron mine, MADOC TP., HAST-		
river, L. HURON.	13	v	INGS CO.		
Walkerton, BRANT TP., BRUCE CO.			Chalcodite in.....	196	ix
Brick-yards in, notes... ..	60	B xv	Evidence <i>re</i> , before R. C.....	132	R C
clay for, Erie	13	B xv	Notes on.....	127	R C; 129
Saugeen.....	19,	20	Ore from, as a flux.....	91	A xv
Lithographic stone near.....	45	R C	Working of, pre-historic.....	183	R C
	636	B xiii	Walli, Jane	33, 35	A xvi
Method of draining clay bank at.	25	B xv	Wallingford, E. <i>See</i> next ref.		
Walkerville, BUTTE CO., Mo.			Bros. & Co.		
Quartz-monzonite from	118	A xiii	Mica trimming works of, Ottawa.	131	xii
Walkerville, E. SANDWICH TP., ESSEX			Gold Mg. Co.		
Co. .			Capital and date of charter.....	10	viii
Natural gas consumption of.....	42	xi	Mining and Mica Co.	106	A xv
piped to.....	28	v		91	A xvi
used in, details.....	19	x	Wallis, Herbert		
Walklate, William	205	i	Notes by, on fuel for locomo-		
Wall, A.	75	xi	tives.....	205, 206	i
Wallace, John	105	viii	Walpole Ore Co.		
	112, 118	ix	Capital and date of charter.....	13	vii
	144	x	tp., HALDIMAND CO.		
W. R.			Artesian wells in.....	62	i
Course of Ophir veins proved by.	43	iii	Fossil corals in.....	142-144	xii
William	135	x	Gas in.....	108	A xv
	288	xi	Limestone quarries in	54	B xiii
& Son.			Oriskany formation in.....	153	xii
Brick-yard of, North Bay.....	83	B xv	Walrus.		
analysis of clay used in....	27	B xv	Hudson bay and strait	133	iv
J. & Sons	20	vii	Walsh, J. J.		
copper mine, MOUTH OF WHITE-			Owner, Sabawe gold mine	107	x
FISH RIVER, L. HURON.				150	xi
Chalcopyrite in.....	196	ix		72	A xiii
Cobalt in	90	i	T.		
Evidence <i>re</i> , before R. C.....	67, 97, 142,	143	Gold prospecting by, L. of the		
	221	i	Woods.....	102	vii
Examined by Murray, 1848.....	221	i	Part owner, Trojan gold mine...	43	vii
Gold in	59	R C	gold mine. <i>See</i> Sabawe gold		
Iron in	142, 143	R C	mine.		
at World's Fair.....	81	ii	Walsingham tp., NORFOLK CO.		
Manganite in	202	ix	Corniferous formation in. <i>See</i>		
Morenosite in.....	194	ii	Port Rowan.		
	205	ix	Iron ochre in	200	ix
Nickel in.....	24, 67	R C	Walton, John	199	iii
	176, 233	i	Wampum Gold Mining Co.		
	58	B xiv	Work by, 1896.....	54	vi

	Page.	Vol.		Page.	Vol.
Wanatangua lake. See Frederick House lake.			Wanapitei river, WANAPITEI LAKE, NIP.		
Wanapitei, DRYDEN TP., NIP.			Forest fires on, 1872.....	206	v
Cyanite at.....	237	vii	Gold on, alluvial.....	258	vii
	200	ix	notes by Gibson.....	17	xi
Description of.....	138	vii	Lumbering on.....	119	iv
Gneiss at, photo of structure.....	124, 125	vii	Notes, by Coleman, on upper portion of.....	154, 155	x
Kettle-holes near.....	167	vi	Rocks on.....	172	vi
Labradorite at.....	200	ix	Huronian.....	127 c	xiv
gold mine, WANAPITEI LAKE, NIP.			limestone, dolomite ...	82	i
Quartz from, mill test on.....	214	v	for burning.....	94	i
lake, NIP.			unconformity of.....	69	i
Arsenolite near.....	195	ix	Sand deposits on, notes and section.....	182, 183	vi
Cassiterite near.....	211	ix	Waterpower on.....	138, 252, 253	vii
Copper on.....	24, 434	R C		10 A	xiv
Glaciation near.....	102 c	xiv		13 A	xv
Gold on and near.....	27	R C		67, 68 A	xiv
	92	i	notes.....	62 A	xv
	191	ii	photo.....	63 A	xv
	13	iii	Wandigo lake. See Windigoostigwan lake.		
	123	iv	Wangan or Wannigans.		
	8	v	Description of.....	164	v
mining.....	4	iv	Wanlothead, SCOTLAND.		
notes.....	112, 435, 436	R C	Gold mining near.....	115	R C
	267, 268	vi	Wanzatika lake, OPASATIKA RIVER, ALG.		
85-87, 136-141	vii			145 A	xiii
nuggets.....	38	iv	Wapiti. See Elk.		
Iron ore on and near.....	141	vii	War.		
	201	x	Effect of, on mining.....	101	viii
	224 A	xiii	Eagle Consolidated Mg. and Dev. Co.		
mining.....	177, 178	x	Capital and date of charter.....	9	xii
	20, 21, 298, 299	xii	Warbler.		
notes by Coleman.....	185, 186	x	Abitibi dist.....	253 A	xiv
with jasper.....	183	ix	Yellow		
See also Moose Mountain iron range.			Abitibi dist.....	126 A	xiii
Bonanza mine, Scadding tp.			Ward, A.	118	ix
H. B. C. post on, photo.....	176, 177	vi	E. B.	141	vi
Jaspilite on and near, notes by Miller.....	177	x	Edwin	129	vii
Minor ref. to.....	201	v	Dr. Leslie D.	22	xi
Nickel on and west of.....	145 c	xiv	L. M.	106	vii
	273	xii		101, 105	viii
discovery.....	434	R C		118	ix
See also Northern nickel range.				144	x
Pine north of.....	119	iv	Myrtle	105	viii
Rocks on and near.....	72, 73, 82	i		118	ix
	206	x		114	x
	83 B	xiii	Venia A.	118	ix
arkose.....	92 c	xiv		144	x
conglomerate.....	204	x		75	xi
	134 A	xvi	W.	105	viii
gossan.....	73 c	xiv		118	x
granites.....	68, 69, 84	i		144	x
	158	vii		75	xi
Huronian.....	71	i		67	xii
	39	iv		48 A	xiii
	158	vii	W. E.		
	160	viii	Steel and concrete first used by, for building.....	175 A	xiv
	221 A	xiii	William		
iron-bearing.....	8, 127 c	xiv	Evidence by, before R. C. re :—		
petrography.....	149, 150	vii	gold, L. Huron.....	114	R C
Scenery of and squalls on.....	267	vi	mineral lands.....	315	R C
Power Co.			technical education.....	428	R C
Plant of, completed 1905.....	13 A	xv			

	Page.	Vol.
Ward gold mine, WAWA LAKE, MICHIPICOTEN DIV.		
Notes on, 1898	146	viii
Wardell, C.	105	vii
Warden tp., NIP.		
Analysis of soil from	246 A	xiv
Wardle, John		
Brick-yard of, Blenheim	72 B	xv
Wardman, T.	106	vii
	105	viii
Ware, L. H.		
Brick-yard of, Huntsville	89 B	xv
tp., TH. B. D.		
Iron ore in	69	ii
H. L. Smith's views.	77	ii
Warina, ROXBOROUGH TP., STORMONT CO.		
Ballast pit at, notes	219, 220	x
Saxicava sand at	227	x
Wark tp., ALGOMA.		
Explorations in, notes by McMil-		
lan	190, 191 A	xiv
Soil in, muskeg	186, 209, 220 A	xiv
requires drainage	207 A	xiv
Trees in	220 A	xiv
Warkworth, PERCY TP., NORTHUM- BERLAND CO.		
Gravel deposits near	231 A	xiii
Warmington Stone and Marble CO.		
Work by, Garden river	83, 228	R C
Warners, N.Y.		
Paving clay from, analysis	120	iii
Warren, G.	78	x
M. A. Myers See Consoli-		
dated Mines Co.		
S.	118	ix
	144	x
	75	xi
lake (glacial).		
Area of, outlets of.	136, 137	vi
Beaches of	152	viii
	104 C	xiv
altitude	103 C	xiv
Deposits of, Nipigon Lake dist.		
	135, 148 A	xvi
Grounded icebergs in	112	vi
Wawa lake once a bay of	196 A	xv
tool factory, SCOOTAMATA RIVER, MOIRA RIVER	98	vii
Warsaw, DUMMER TP., PETERBORO CO.		
Limestone from, for Otonabee		
canal	97 B	xiii
Wart lake, S. OF KAPISKASING LAKE, ALG.		
Description of	138	ix
Forest fires near	142	ix
Notes on, by Charlton, jr.	202	viii
Waterpower near	142	ix
Warwick & Son.		
Brick-yard of, London, Ont.	81 B	xv
Warwick tp., LAMBTON CO.		
Hamilton formation in	99 A	xiv
Wash mills.		
In cement making, notes.	125 A	xiv
Washaigamog lake. See Fairbank lake.		

	Page.	Vol.
Washington, Dr. H. S.		
Acknowledgments to	187	ix
	208	xi
Analysis by, of heronite	189	ix
S. F.	118	ix
State, U. S.		
Arsenic plant in	31 B	xiv
Arsenical ores in	102	xi
Washington, U. S.		
Brick pavements in	108, 109	iii
Nickel steel experiments at. See		
Gamgee, and Ritchie.		
University, St. Louis.		
Notes on, by Mathers.	505, 506	R C
Richards.	512	R C
Wastabaskinan chute, NETTOGAMI RIVER, ALG.	137 A	xiii
Waswanipi river, NOTTAWAY RIVER, QUE.		
Timber in valley of	204	v
Wataybeeg lake, WATAYBEEG RIVER, BLACK RIVER, NIP.		
Rocks on	119 A	xiii
petrography	117 A	xiii
Route from, to Black river.	113 A	xiii
river, BLACK RIVER, NIP.		
Description of	111 A	xiii
Glacial striae on	115 A	xiii
Notes on, by Kay	113 A	xiii
Rocks on and near	117, 119 A	xiii
Water. See also Artesian water and Springs.		
Artesian, quality of	54, 55	i
Boring for, notes on	127, 128	i
Coolgardie gold field, W. A.,		
scarcity of	8	v
Composition of	447	R C
Effect of, on diorite, diagram ...	189	xi
In natural gas, method for elim-		
inating	106	ix
Leamington, analysis	58	i
Paris, Ont.	148	xii
Rainy lake	44	iv
Raleigh tp., analysis	57	i
St. Thomas	60	i
mineral OR medicinal		
Analysis of various	204, 205	ix
Canada, production	525	R C
James Bay basin	156 A	xiii
Knox tp., east of	235 A	xvi
Mattagami river	154 A	xiii
Occurrences	59-62	i
Port Arthur silver mines.	54 B	xiv
Port Colborne	59, 129	i
Wabigoon, near	171	vii
salt		
Ancaster (near), analysis.	204	ix
Blanche River region	224	xi
Gas and oil wells	105	ix
	104 A	xiv
Whitby, analysis	204	ix
Windsor	59	i
=closets.		
Moss-litter for	139	iii
=cooled furnace.		
Construction of	376	R C
gas.		
As fuel for smelting	390	R C
Cost of production	391	R C

	Page.	Vol.		Page.	Vol.
Water lily.			Waterpower.—Con.		
Gold creek, Matawin river.....	129	v	Bracebridge, photo of wheel....	82 B	xv
Reed lake.....	200 A	xv	Calcium carbide produced by....	31	vi
white			Burleigh falls.....	213	viii
Rainy Lake region.....	96	iv	Chaudière falls.....	36 A	xi
yellow pond			Germany.....	36 A	xi
Abitibi dist.....	241, 253 A	xiv	Niagara falls.....	37, 38	v
Mattagami valley.....	150 A	xv		36 A	xi
Rainy Lake region.....	96	iv	Credit river.....	13 Bull.	iii
lime formation. See Lower			Crow river.....	56	iii
Helderberg.			Deer lake, Peterboro' co.	92	ix
Waterbury valley, PENN.				27, 188	xi
Nickel and white metal industry				14	xii
in.....	161	ii		14 A	xv
Waterdown, E. FLAMBOROUGH TP.,			Gananoque river.....	292	xi
WENTWORTH CO.			Grand river.....	279	vi
Beach at.....	229 A	xiii	Ground-hog river.....	142	ix
Medina shale at.....	116, 117 B	xv	Gull river.....	33	xii
analysis.....	8 B	xv		17 A	xiii
Waterford, TOWNSEND TP., NORFOLK				18 B	xiii
co.				157 A	xiv
Stratified gravels near.....	142	xii	Kagawong lake.....	80 B	xiii
	83 B	xiii	Kaministiquia river.....	133	v
Waterford Oil and Gas Well Co.				133, 252	vii
Capital and date of charter.....	37 A	xiii	plant.....	13 A	xv
Waterhen creek, MATTAGAMI RIVER,			L. of the Woods, Keewatin....	53	vi
ALG.			Lake on the Mountain.....	240 A	xiii
Description of main river near...	118 A	xv	Little Wabigoon river.....	126	vii
Ruby silver on, trace.....	131, 132 A	xv	Madawaska river and tribs.....	66	vi
Soil from, character and analysis.				218	vii
	151-154 A	xv		237	viii
Timber south of.....	139 A	xv	for Black Donald mine.....	27	xi
lake, W. OF MATTAGAMI RIVER,				26	xii
ALG.				87 A	xiv
Country around, description....	128	ix		14 A	xv
Waterloo, BELGIUM.....	164	i	from Mountain chute.....	27, 293	xi
Waterloo, N. WATERLOO TP., WATER-				133	xii
LOO CO.			photo.....	222	vii
Artesian wells in.....	59	i	suggested use of.....	390, 391	R C
Brick-yard in, notes.....	102-104 B	xv	York river.....	66	vi
analysis of clay for.....	14 B	xv		215, 220, 237	viii
Onondaga formation near.....	117 B	xiii	See also High falls.		
co.			Ragged chute.		
Limestone in, notes by Miller.			Manitou lake (Harrison falls)...	123	vii
	114-116 B	xiii	Mattawin river.....	132, 133	v
Peat in.....	209	ii	Mattagami lake...	132, 142	ix
County Mining Syn.			Mattagami river.....	142	ix
Interested in water-power, Michi-				128, 129 A	xv
picoten falls.....	72	xi	Michipicoten div.....	206	vii
Zagloba claim owned by.....	138	x	Batchawana river.....	201	viii
Mg. Co.			Dog river.....	13 Bull.	iii
Capital and date of charter.....	30 A	xvi		299 A	xiv
tps., WATERLOO CO.			Magpie river.....	299 A	xiv
Artesian wells in. See Preston.			Michipicoten river.....	13 Bull.	iii
Lime kilns in. See Hespeler.				72	xi
Onondaga formation in. See				222 A	xiii
Doon.				68 A	xiv
Waterous Engine Co.....	68 B	xv		67 A	xv
Waterpower.				68 A	xvi
Abitibi river.....	193	viii	photo.....	169 A	xvi
	208, 209 A	xiv	Mississagi river.....	25	vii
Couchiching falls.....	235 A	xiv	Baboon falls.....	149	viii
Iroquois falls.....	230, 231 A	xiv	Mississippi river, Ont.....	390	R C
An element of manufacturing			Moose River basin.....	145 A	xiii
prosperity, instances.....	485	R C	Northern Ontario, notes by Blue.		
Bellegarde, France.....	485	R C		13, 14 A	xv
Big Turtle lake, near.....	127	vii	Opasatika river.....	136 A	xiii
Black river, Nip.....	186, 188	xii	Pishkanogema river.....	142	ix
Blind river, L. Huron....	98	xii	Pukaskwa river.....	299 A	xiv

	Page.	Vol.		Page.	Vol.
Waterpower.—Con.			Watson (Rocky) lake, WINDIGOKAN		
Rainy river.....	162	v	LAKE, TH. B.D.		
Rocky Saugeen river.....	33	xi	Iron range near.....	144, 145 A	xvi
Sable river.....	120	x	Minor ref. to.....	138 A	xvi
St. Mary river.....	37	v	Watt, James	xxi, 358	R C
	61	x	and Smith.		
	91	xi	Brick-yard of, Attercliffe, notes.....	77, 78 B	xv
Sawbill lake.....	66	vii	Watten tp., R. R. D.		
	90	viii	Iron in.....	134	xi
Scootamatta river.....	98	viii		309	xii
Seine river.....	43	iv	mining.....	266	xi
Sudbury dist.....	10, 68-71 A	xiv	pyrites.....	175 A	xvi
	51-63 A	xv	<i>See also</i> Nickel lake.		
	39 A	xvi	Surveyed, 1903.....	40, 55	iv
Spanish river.....	13, 62, 63 A	xv	Talc in.....	76, 85	iv
	10, 69 A	xiv	Watts, Edward		
	141 C	xiv	Apatite mining by, Bobs lake... ..	239	i
Vermilion river, photo.....	72 C	xiv	Edward		
Trent canal.....	149 A	xiv	Mica mining by, N. Burgess tp..	132	x
United States, various localities..	485	R C		89 A	xvi
Wabigoon river.....	118	iv	Edward		
Wanapitei river.....	138	vii	Silver mining by, Coleman tp... ..	80 A	xv
	67 A	xvi	and Allan. <i>See</i> Watts silver		
Young, Point.....	32	xi	mine, Coleman tp.		
mt., NEAR BOYER LAKE, MICH-			and Noble.		
PICOTEN DIV.	255	viii	Mica mining by. <i>See</i> Watts, Ed-		
Waters, John	26 A	xiv	ward		
T.			Mines, Ltd.		
Ref. to article by, on separation			Capital and date of charter.....	31 A	xvi
of magnetic ores... ..	340	xii	silver mine, COLEMAN TP., NIP.		
T. F.	82	ix	Notes on, 1905.....	80 A	xv
T. J.			Shipping.....	15 B	xiv
Mica mining, N. Burgess tp.....	245	i		7 A	iv
	252	ii	Watzke, O. Anton	100	x
	277, 278	v	Waubamik, McDougall tp., P. S. D.		
tp., SUDBURY DIST.			Mica mining near.....	279, 280	v
Copper and nickel in....	24, 105, 433	R C	Waupoos, Marysburg tp.		
mining.....	64 A	xv	Beach at.....	240 A	xiii
Crystalline schists in.....	80	i	Waves.		
Gold, silver and galena in.....	112	R C	Effect of, near Scarborough, Ont.	230 A	xiii
Norite in.....	242	xii	L. Superior, power of.....	147, 156	viii
Quartz mining in, for flux.....	64 A	xvi	Wavy rapid, Missinaibi river, Alg.	195	viii
Watersheds.			Wawa, Wawa lake, Michipicoten		
New Ontario.....	201	v	DIV.		
Watertown, Jefferson co., N. Y.			Beaches near, altitude.....	196 A	xv
Altitude of beach at.....	234 A	xiii	Character of country around....	153	xi
Ballast pits at.....	238 A	xiii	Formation of.....	100, 146	viii
Glaciation north of.....	237 A	xiii		175 A	xv
Waterworks.			Gold prospecting near.....	194	vii
Affecting insurance rates.....	55	i	Pleistocene deposits near.....	134	xi
Watson	195	iii	sandy plain.....	201 A	xv
John	84	viii	Rocks at and near.....	146	viii
Hon. Robert			Contact, Huronian-Laurentian... ..	151	xi
Gold mining by, The New Klon-			Route from, to Missinaibi... ..	201, 202 A	xv
dike.....	72	viii	creek, Michipicoten river,		
and Hutchinson.			Alg.		
Brick-yard of, Bracebridge, notes.			Fall on, height of.....	193	vii
	82, 83 B	xv	Gold prospecting on.....	114	ix
Clay working by.....	41 B	xv	Gold Mining Co.		
analysis.....	18, 27 B	xv	Capital and date of charter.....	10	viii
Watson gold mine, The New Klon-			Licence to.....	105	viii
DIKE, R. R. D.			Work by, 1898.....	101	viii
<i>See also</i> Golden Whale mine.				112, 114	ix
Notes on, 1897.....	77	vii	lake, Michipicoten div.		
1898.....	72, 73	viii	Altitude of.....	193	vii
iron mine, Christie lake,				157, 175	ix
LANARK CO.				153	xi
Magnetic ore in.....	46	ii			
Notes on, by Vennor.....	47	ii			

	Page.	Vol.		Page.	Vol.
Wawa lake.—Con.			WD 35, 37, 150, 231, 238, 239,		
Beach on and near.....	154	viii	241, 242, 251 nickel locs.,		
	175	ix	BOWELL TP., NIP.....	200 A	xiii
	201, 202 A	xv		69, 70 c	xiv
altitude.....	176	ix	44 gold loc. See Crystal mine.		
damming it.....	7 Bull.	iii	152 nickel loc., BOWELL TP.,		
	204	vii	NIP.....	114 c	xiv
	184	xi	155 nickel loc., BOWELL TP.,		
Boulder near, of jasper and			NIP.....	121 c	xiv
hematite.....	206	vii	234 nickel loc., FOY TP., NIP..	70 c	xiv
Coal near, wrongly reported.....	158	xi	252 nickel loc. See Prue's		
Galena reported on.....	60	xii	mine.		
Gold on.....	11 Bull.	iii	271 gold loc. See Big Dan		
	184	vii	mine.		
mining.....	101, 195	vii	359 iron loc., MORIN LAKE,		
	100-102	viii	ALG.....	224 A	xiii
maps showing			404, 405 iron locs., JAMES		
claims.....	121	viii	LAKE, TIMAGAMI DIST., NIP. 20,	88 A	xv
notes by Willmott.....	205	vii	460-465 arsenic loc. See		
prospecting.....	174 A	xv	Little Dan mine.		
early..	9 Bull.	iii	Weadock, George W.		
See also Wawa Gold Mg. Co.			Gold mining by, Seine River dist.	81	ix
Iron ore near, with jasper.....	11 Bull.	iii	Vice-president, Jack Lake Gold		
pyrites on (reported).....	60	xii	Mg. Co.....	106	x
Photo of.....	140, 141	vii		148	xi
Rocks on and near.....	203	vii		82	xii
	156	ix	Wearne, W.	99	xii
conglomerate.....	144	viii	Weaschawan fall, LITTLE MISSIN-		
granite, petrography.....	176	xi	AIBI RIVER.....	140	ix
Huronian.....	156-158, 166, 180	xi	Webb, G. F.	28	xii
landing, MICHIPICOTEN RIVER.			J. E.		
Photo of.....	156, 157	vii	Brick works of, Toronto....	109, 110 B	xv
tuff.			clay for, analysis.....	8 B	xv
Character of.....	114 A	xvi	William Walter	100	iii
Description, distribution and			Webber, John		
position.....	155, 157	xi	Molybdenite mining by, Laxton		
Goetz claims, Michipicoten div..	181 A	xv	tp.....	25	xii
Minor ref. to.....	300, 301 A	xiv	Weber—?	193	i
Petrography.....	179, 180	xi	Webster, Frank.	97	i
Wawashkaise (LITTLE DEER) lake,				74 B	xiii
BURTON TP., P.S.D.			J. H.....	29	iii
Limestone in.....	93 B	xiii	J. W.....	234	ii
Wawayeshatching lake, E. OF			James.....	121 B	xiii
GROUND-HOG RIVER, ALG..	130, 133	ix	P. W.....	42	ix
Wawiatan rapid, MATTAGAMI RIVER,			Stephen.....	97	i
ALG.				74 B	xiii
Nomenclature of.....	127	ix	W. J.	250	ii
Waterpower at.....	142	ix	and Angell.....	30	iii
Wax.			F. W. & Co.		
Heating power of.....	481	R C	Mica mining by.....	192	iii
Waxwing, Cedar				98	vii
Abitibi dist.....	126 A	xiii		131-134	x
	243 A	xiv		289	xi
Wayne co., N.Y.				129	xii
Iron smelting in.....	323	R C	Canton mine.....	195	iii
Iron and Steel Mill, PITTS-				276	v
BURG.				68 A	xvi
Labour employed at, statistics...	370	R C	Grant mine.....	278	v
Waynesburg Brick and Clay Mfg.			Stoness mine.....	133	x
Co.			trimming works.....	135	x
Analysis of shale used by.....	119	iii		291	xi
WB 7 iron loc., STANDING-STONE				131	xii
LAKE, TH.B.D.....	126 A	xvi		106 A	xv
WD nickel loc., NEAR JOE LAKE,				91 A	xvi
WISNER TP., NIP.....	202 A	xiii	Sydenham, sold.....	291	xi
	72 c	xiv	Webster, N. CAROLINA.		
25, 40 gold locs. See Eagle			Nickel near.....	131	ii
Nest mine.					

	Page.	Vol.
Webbwood, HALLAM TP., ALG.	—	—
Agricultural land near.....	103	iv
Clay near, Saugeen.....	22 B	xv
Gold near.....	5 A	xiii
mining. <i>See</i> Shakespeare mine.		
Pulp mill at.....	13 A	xv
photo.....	22 B	xv
Slate near.....	93 C	xiv
Webbwood falls, SPANISH RIVER.		
Waterpower plant at.....	13 A	xv
Webwood General Mfg. and Development Co.		
Capital and date of charter.....	13	vii
Wedding, Dr. H.		
Ref. to paper by, on magnetic concentration.....	340	xii
Wederkinch, Carl O.	152, 153	vi
Weeds.		
Destroyers of, arsenic in.....	114	xi
formula for a cheap.....	115	xi
Night-hawk lake.....	123 A	xiii
Weekes, M. B.	7, 61	xi
Weeks, Joseph D.	151	B C
T. C.	156	vi
Weese, George W.	99 A	xv
Peter	31	ix
Weesian, Toussaint (Indian) ..	136, 142	viii
Weiden, J.	267	v
Weidenhammer, Peter	74 B	xiv
Weidman, James	220	iv
	37	ix
Weigel, W.	91 A	xv
Weilburg, GERMANY.	352	R C
Weill, Henry	127 A	xvi
Weinbach river, GERMANY.	352	R C
Wekwemiking, MANITOULIN ISLAND, L. HURON.		
Boring near, for oil.....	72, 73 A	xv
Welch iron mine, NEAR MADOC, HASTINGS CO.		
Notes on, 1898.....	32	viii
property, NEAR SMITHS FALLS.		
Fossil whale from.....	217	x
Welcome channel, L. OF THE WOODS.		
lake, W. OF WANAPITEI RIVER, NIP.		
Ancient valley south of.....	182	vi
Map of, sketch.....	171	vi
Photo of part of.....	176, 177	vi
Pike in.....	170	vi
Rocks on.....	172	vi
Striae on, direction.....	181	vi
Well drilling. <i>See</i> Boring.		
Welland, CROWLAND TP., WELLAND CO.		
Calcite in.....		
Meteorite near, notes on.....	203	ix
Natural gas near.....	126, 136	i
supply of.....	44	xi
	91 A	xiv
Peat bog of:—		
analysis.....	202	xii
cost of briquetting.....	225	xii
method of working.....		
209-211, 216-219		xii
notes.....	203	xii
	30, 31 A	xiii

	Page.	Vol.
Welland.—Con.		
Peat bog of.— <i>Con.</i>		
photos.....	192	vi
	192	xii
plant.....	231	xii
	28 A	xiii
tests on.....	190	vi
Acetylene Gas Machine Co.	20	vii
canal, WELLAND AND LINCOLN COS.		
Limestone on, Corniferous.....	34	xi
fossiliferous.....	117 B	xiii
Niagara.....	125 B	xiii
Peat along.....	191	i
	209	ii
<i>See also</i> Welland.		
Power from, for Willson Carbide Co.....	36 A	xi
co.		
Brick-yard in, notes.....	104, 105 B	xv
Limestone in, Corniferous.....	25 B	xiii
notes by Miller... ..	116-120 B	xiii
Natural gas in. <i>See</i> Welland gas field.		
Oil in, boring for.....	99, 100 A	xiv
	113 A	xv
Peat in.....	209	ii
County Lime Works Co.		
Capital and date of charter.....	9	x
Lime producing, Port Colborne, 1902.....	98	xii
Natural gas used by.....	91 A	xiv
	23 A	xv
(CHIPPAWA) creek, WELLAND CO.		
Limestone on.....	125 B	xiii
gas field, WELLAND CO.		
Natural gas of.....	4	i
boring for.....	99, 100 A	xiv
	113 A	xv
industry, 1895.....	28	v
1899.....	106	ix
notes.....	136	i
	20, 21	x
	22 A	xiii
by Corkill. 90, 91, 99, 102-105		A xiv
production, 1892.....	10	ii
1897	19	vii
1899.....	23	ix
report by Stiff.....	44, 45	xi
rock pressure of.....	96 A	xiv
wells, number, 1902	39	xii
	1906.....	25 A xvi
Wellesley, Arthur	165	i
Wellington, Cyrus.	75	viii
Stephen		
Fluorspar mining by, Madoc tp. 106 A		xv
Henderson talc mine worked by. 87 A		xiv
	106 A	xv
	91 A	xvi
Iron bounties paid to, 1901 .. .	26	xi
mining by, Madoc tp.....	154 A	xvi
St. Charles mine.....	261	xi
	20, 115	xii
Seymour mine	129	x
and Henderson.		
Pyrites mining by, Dalhousie tp. 164 A		xvi

	Page.	Vol.
Wellington, HILLIER TP., PRINCE EDWARD CO.		
Beach at.....	240	A xiii
Wellington, LORAIN CO., OHIO.		
Corniferous formation at, thickness.....	156	i
co.		
Limestone in, notes by Miller....	120-123	B xiii
copper mine, BRUCE MINES DIST., ALG.		
Copper in, chalcopryrite.....	196	ix
mode of occurrence....	175	i
Evidence <i>re</i> , before R.C....	100, 101	R C
Limestone near.....	160	viii
Nomenclature of.....	96	R C
Notes on, by Bell.....	23	R C
Blue.....	36, 37	iii
Coleman.....	125	viii
Merritt.....	91	R C
Smelting process at, failure of....	378	R C
pyrites claim, MADOC TP., HASTINGS CO.		
Notes on.....	161	A xvi
quarry, PUSLINCH GORE, WELLINGTON CO.		
Analysis of limestone from.....	122	B xiii
st., BRANTFORD.		
Log of gas well in.....	107	A xiv
st., OTTAWA.		
Mica trimming works in.....	91	A xvi
Wellman, Charles.....	31	vii
Wells, J. Walter		
Analysis by, of :—		
copper ore, McConkey tp.....	171	ix
corundum.....	238	vii
limestones, Eastern Ont.....	156	xii
magnetite, Timagami island..	169	x
sperrylite, Denison tp.....	181	R C
	209	ix
Assays by, of :—		
auriferous deposits, Vermilion river.....	152, 153	x
gravel and sand, Savant lake.	90	xii
iron ores, Timagami dist.....	180	x
Notes by, on Canada Corundum Co.....	20	ix
Paper by, on arsenic in Ont..	101-122	xi
ref. to.....	32	B xiv
on magnetic concentration of iron ores.....	332-342	xii
Report by, on Provincial Assay office :—		
1898.....	284-289	viii
1900.....	148-150	x
1901.....	76-79	xi
1902.....	68-72	xii
Resignation of.....	72	xii
Sperrylite found by, from Denison tp.	92	i
named by.....	282	xii
Test by, of Merrieffield gas generator.....	231	xii
Work by, 1900.....	6	x
1901.....	7, 90	xi
1902.....	4-6	xii
tp.....	165	xii
Welsh, T. J.		
Brick making by, Peterboro....	95	B xv

Wendigo, NIP.

Route from, to Larder lake, description....	203	A xvi
gold mine, WITCH BAY, L. OF THE WOODS.		
Notes on, 1899.....	44	ix
1900.....	71, 72	x
1902.....	96	xii

lake, S. OF LARDER LAKE, NIP.

Cobalt on.....	35	B xiv
	218	A xvi
Description of.....	217	xi
Gold north of, discovery.....	203	A xvi
Rocks south of, metamorphosed.	38	B xiv
Route from, to Larder lake.	202, 203	A xvi

Mines of Ontario, Ltd.

Capital and date of charter.....	9	x
----------------------------------	---	---

Progressive Mg. and Dev. Co.

Capital and date of charter.....	30	A xvi
----------------------------------	----	-------

Silver and Copper Mg. Co.

Capital and date of charter.....	31	A xvi
----------------------------------	----	-------

Wendt, A. F.

Ref. to work by, on magnetic concentration.....	237	xii
---	-----	-----

Wenebagon river, MISSISSAGI RIVER, ALG.

Bears near.....	172	xii
Description of, by Graton..	166, 167	xii
Photo of.....	160, 161	xii

Wenstrom Magnetic separator.

Description of.....	349, 350	R C
	228	xii

Wentworth co.

Brick-yards in, notes.....	105, 106	B xv
Limestone in, notes by Miller....	123-126	B xiii

Wentz, R. F.....	33	xii
	18	A xiii

Wequemaking bay, MANITOULIN ISLAND.

Rocks on.....	76	B xiii
---------------	----	--------

Werner, A. G.

Views of, <i>re</i> origin of metalliferous veins.....	171, 172	i
--	----------	---

Wernerite. See Scapolite.**Weslemkoon lake, ASHBY TP., ADDINGTON CO.**

Granite near.....	225	viii
-------------------	-----	------

Wesley tp., NIP.

Mistogo river in, description.	202, 203	A xiv
Soil in, analysis.....	247	A xiv
and trees.....	232	A xiv

West, J. H.	214	v
W.....	29	xii

Bay, MANITOULIN ISLAND, ALG.

Rocks at and near.....	76, 78	B xiii
Section near.....	79	B xiii

Canada Mining Co.

Affected by fall of copper.....	97	R C
Bruce mines bought by, 1865....	95	R C
Notes on mines of.....	91	i
Smelting operations of.....	403	R C

End Mining Co.

Capital and date of charter.....	13	vii
Work by, 1898.....	96	viii

End silver mine, SILVER MT., LYNBSTER TP., TH. B. D.

Animikie formation in.....	35	R C
----------------------------	----	-----

	Page.	Vol.		Page.	Vol.
West End silver mine.—<i>Con.</i>			Westmeath tp., RENFREW CO.		
Controlled by Consolidated Mines Co.	19	xi	Actinolite in.....	192	ix
	96	xii	Limestone in.....	102 B	xiii
Depth of, 1899.....	35	ix	Marl in, analysis.....	107 B	xiii
Evidence <i>re</i> , before R.C.196, 199,	202	R C	Peat bog in.....	190	i
Exhibit from, at Buffalo.....	86	xi		198	ii
Labour employed at, 1898.....	280	viii	Westminster Mining Co.		
Management of, energetic.....	428	R C	Capital and date of charter.....	10	viii
Notes on, 1891.....	227	i	Weston, YORK TP., YORK CO.		
1892.....	239	ii	Iroquois beach at.....	229 A	xiii
1898.....	50, 96-98,	viii	Limestone at.....	126 B	xiii
1899.....	84	ix	Westport Mg. and Developing Co.		
1900.....	108, 109	x	Capital and date of charter.....	11	xi
1901.....	257, 258	xi	Wet Process Reduction Co.		
1902.....	16, 97	xii	Capital and date of charter.....	30 A	xvi
1906 and photo....	61, 62	A xvi	Wetherill separator.		
Operating, 1905.....	5	A xv	Diagram of.....	336, 337	xii
Producing, 1906.....	8	A xvi	For corundum.....	244	vii
Section of.....	83	ix	Tests with, on iron ores of Ontario.....	333-337	xii
Huntingdon, HUNTINGDON TP., HASTINGS CO.			Wettlaufer, A.		
Beach near.....	227, 232-237	A xiii	Brick-yard of, Blyth.....	70 B	xv
Silver Glance mine, STRANGE TP., TH. B.D.	203	R C	Whale.		
Virginia, U. S.			Cornwall, near (fossil). 217, 219, 224		x
Brick pavements in cities of....	108	iii	Hudson bay and strait.....	133	iv
Geological survey of, notes by Walker.....	422	R C	Smiths Falls, near (fossil).. 216, 219		x
Oil strikes in, affect prices.....	18	x	Whalen, James	86	ix
Shales of, analyses.....	120	iii	Whaley, A.	103 A	xv
Winchester. —<i>See</i> Winchester.			Wharnccliffe, WELLS TP., ALG.	165	xii
Westchester co., N. Y.			Wharton, Joseph		
Corundum and emery in.....	62	vi	<i>See also</i> Wharton iron furnace.		
	241, 242	vii	Nickel exhibited by, 1876.....	135	ii
Westcott, G.	67	xii	mining by, Penn.....	28	vii
Thomas	100, 105	viii		213	ix
Westerfield, N. C.	255	xi	Sudbury.....	93	vii
(<i>See also</i> Independence gold mine).			prospecting by, U. S.....	43	vi
gold mine, MANITOU LAKE.			refinery of.....	131	ii
<i>See</i> Independence gold mine.				146 C	xiv
Mining Investment Co.			Sudbury dist.....	27	vii
Capital and date of charter.....	11	xi	sold to International Nickel Co.	22	xi
Western Australia.				172 C	xiv
Minerals in, royalties on (1890). 44		R C	-steel made by.....	146	ii
Mining laws of.....	295	R C	Notes by, on palladium.....	6-8 A	xiv
Water scarcity of part of.....	8	v	Whartonite named after.....	170	ii
Oil and Coal Consolidated.			iron furnace, CAMDEN, N. J.		
Capital and date of charter.....	31	A xvi	Concentration process at.....	330	xii
Ontario Mg. Co.			Whartonite.		
Capital and date of charter.....	13	vii	Analysis and description... 169, 170		ii
Minor ref. to.....	7	vi	Sudbury ores.....	281	xii
Ontario Portland Cement Co.				160 C	xiv
Capital and date of charter.....	37	A xiii	Bleazard tp.....	211	ix
Notes on, 1905.....	162	A xiv	Wheal Mary mica mine, STORRING-TON TP., FRONTENAC CO.		
Operating, 1906.....	20	A xvi	Notes on, 1900.....	133	x
Plant of, extended, 1904.....	18	A xiv	Wheat.		
1905.....	17	A xv	Mentioned as growing at :—		
Peat Fuel Co.			Abitibi dist. (suitable for).. 253	A	xiv
Bog of, at Rondeau, notes.....	206	xii	Abitibi lake.....	50	A xvi
Formation of.....	9	x	James bay.....	107	iv
Salt Co.			Pringle tp....	170	ix
Capital and date of charter.....	24	A xiii	Rainy River dist.....	65	R C
Westinghouse Machine Co.			Rainy river.....	163	v
Output of, 1893.....	119	ii	bird.		
Westman, Charles	67, 249	vi	Abitibi river, South of.....	189	xii
			Wheatland, MERCER CO., PENN.		
			Corniferous formation at, thickness.....		

	Page.	Vol.
Wheatley, ROMNEY TP., KENT CO.		
Oil in	90, 111	A xiv
production, 1906.....	24	A xvi
Wheel ore. <i>See</i> Bournonite.		
Wheeler, C. P.	118	ix
	144	x
	75	xi
D. C.	105	viii
H. W.	248	iv
J. M.	243	i
	279	vi
	99	vii
Wheeling, W. VIRGINIA.		
Blast furnace near	125	ii
Brick pavement in.....	107, 113	iii
Whiskey creek, WHISKEY LAKE,		
ALG.	63	A xiv
island, L. OF THE WOODS.	186	v
lake, N. OF L. HURON, ALG.		
Cobalt bloom on.....	11	A xv
Copper mining on.....	98	xii
	62, 63	A xiv
	69, 70	A xv
	68, 72	A xvi
Whiskeyjack lake, SEINE RIVER		
DIST., R. R. D.		
Description of, by Blue.....	141	v
Iron ore near	265	xi
Nomenclature of; rocks on.....	73	v
point, L. SUPERIOR, TH. B. D.		
Rocks in vicinity of.....	146	ix
Whistle nickel mine, SELWYN LAKE,		
NIP.		
Geology of, notes by Coleman.	74, 75	C xiv
Plan of.....	275	xii
Purchase of.....	56	A xvi
Rocks of, and near	274-276	xii
	203	A xiii
norite.....	112	C xiv
Valley from, to Massey creek...	73	C xiv
Whitby, WHITBY TP., ONTARIO CO.		
Boring at, for gas	152	R C
Brick-yard at, notes on	88	B xv
Salt spring at, analysis	204	ix
Utica formation at and near.....	42	R C
tp., ONTARIO CO.		
Limestone in.....	40, 89	B xiii
Stratified deposits in. <i>See</i> Myrtle.		
Whitchurch tp., YORK CO.		
Artesian wells in. <i>See</i> Newmarket.		
White, Aubrey		
Acknowledgments to.....	167	vi
Nomenclature by, Chaminias hill,		
Que.	219	xi
Windigoosti-		
gwan lake .	138	v
Visit of, to England.....	5	x
Mrs. E. C.	106	vii
F.	106	vii
Dr. F. A.	23	viii
	46	xii
Prof. I. C.		
Views of, <i>re</i> anticlinal theory for		
oil and gas.....	149	i
J.	106	vii

	Page.	Vol.
White, James		
Refs. to "Altitudes in Canada"		
by	188	vii
	136	viii
	227	A xiii
	8	C xiv
James (MINER)	25, 26	ix
Mrs. James	57	xii
Rev. James	57	xii
Neil	121	v
Peter	262	v
	268	vi
	139	vii
S.	137	xii
T. B.		
Quarrying by, in Anderdon tp..	126	xi
Thos. F.	157	A xiv
W. G.	80	A xv
W. H.		
Brick-yard of, Owen Sound,....	66	B xv
W. H.		
Director of Naval Construction,		
Eng.	143	ii
Statement by, <i>re</i> English armour		
plate	148	iii
criticised	158, 160	iii
W. R.	262	v
	57, 268	vi
Bros.		
Silver discovered by, Anvil lake.		
Nip.....	8	A xvi
arsenic.		
<i>See also</i> Arsenic.		
Composition and value of.....	32	B xiv
Formula for.....	31	B xiv
Bear lake, TIMAGAMI DIST.,		
NIP.		
Indian village on.....	172	ix
	161	x
Trees near.....	174	ix
Beaver lake, MONTREAL RIVER,		
NIP.		
Chalcedony on.....	93	i
	196	ix
Birch lake, PONTIAC CO., QUE.		
Rocks on.....	228	xi
bloom.		
Coleman tp., analysis.....	18	B xiv
Caribou-head river, MATTA-		
GAMI RIVER, ALG.	121	A xv
-clay river, BLACK RIVER,		
ABITIBI RIVER.		
Description of, and vicinity..	183-185	xii
-cloud island, COLPOY BAY,		
GEORGIAN BAY.		
Marl on.....	140	A xiv
falls, BLIND RIVER, L. HURON.		
Waterpower on	98	xii
fish. <i>See</i> Whitefish.		
=Howell furnace.		
Description of	107, 108	xi
iron pyrites. <i>See</i> Marcasite.		
lake, BEDFORD TP., FRONTENAC		
CO.		
Limestone on.....	46	i
lake, DUMMER TP., PETERBORO		
CO.		
Escarpments on.....	97	B xiii

	Page.	Vol.		Page.	Vol.
White lake, HUNGERFORD TP., HASTINGS CO.			White Silver Co.		
Cement on	109	i	Capital and date of charter.....	26 A	xv
Marl from	137 A	xiv	<i>See also</i> Hargrave silver mine.		
lake, HUNTINGDON TP., HASTINGS CO.			Spruce harbour, L. SUPERIOR.		
Marl from.....	122 A	xiv	Dike near, photo of eroded... 168, 169		viii
analysis.....	66 B	xiii	Fishing station at, abandoned... 134		viii
lake, LANARK AND RENFREW COS.			Notes on vicinity..... 142		viii
Iron ore on, probability of..... 140		R C	Spruce river, KAPISKASING RIVER, ALG.		
Marl in.....	107 B	xiii	Forest fires on	177 A	xiii
	121 A	xiv	Sulphur Springs Co.	61	
lake, MICHIPICOTEN DIV., ALG.	242	v	Whitebear (INDIAN CHIEF)	172	ix
lake, OLDEN TP., FRONTENAC CO.			Whiteclay creek, BLACK RIVER, ABITIBI RIVER.	248 A	xiv
Marl on	85	R C	Whiteaves, Dr. J. F.		
	46 B	xiii	Acknowledgments to..... 127		xi
	121 A	xiv	Fossils determined by, from:—		
lake, TH. B. D. (NEAR TRUDEAU).			Emerald lake..... 87 B		xiii
Explorations between, and Miss- inaibi, paper by Borron... 241-258		v	Kawanaska river..... 186		xii
Rocks on	250	v	White-earth (WAHBAHKIMMUNG)		
lead.			lake, TH. B. D.		
Manufacture of	463	R C	Iron ore on..... 314		xii
ore. See Cerusite.			Whitefish.		
Lily gold mine, NEAR CROOKED-PINE LAKE, R. R. D.			Abitibi dist..... 127 A		xiii
Notes on..... 56 A		xvi		242 A	xiv
Mg. and Milling Co.			James bay, streams entering 133		iv
Capital and date of charter..... 30 A		xvi	L. of the Woods..... 167, 169		v
metal.				97	vi
Notes, by Levat, on manufacture of	160, 161	ii	Shoal lake..... 51		v
Oak anticline, OHIO AND W. VIRGINIA.	149	i	L. Superior..... 147		viii
Prospect gold mine, STURGEON LAKE, TH. B. D.				297 A	xiv
Notes on, 1902..... 84, 85		xii	Mattagami River dist..... 117 A		xv
quarry, AMHERSTBURG, ESSEX CO.			Kamiskotaia lake	119 A	xv
Analysis of dolomite from..... 42 B		xiii	Michipicoten div..... 206		vii
Quality of stone from..... 101		i	Dog lake	297 A	xiv
River, MICHIPICOTEN DIV.			Windermere lake	201	viii
Coldest place in Ont..... 139		viii	Nipigon lake	110 A	xvi
Indians at..... 298 A		xiv	Rainy lake and vicinity	44, 97	iv
Minor refs. to..... 136		viii	Timagami lake..... 58		R C
	289, 297 A	xiv	Whitefish, DENISON TP., ALG.		
Rocks near..... 253		v	Brick-yard at..... 57 B		xv
river, L. SUPERIOR.			Farm land near..... 106 C		xiv
Beaches on..... 175, 176		ix	Quartz from near, assay	92	i
Character of..... 242		v	bay, L. OF THE WOODS.		
Cold weather on..... 112		vi	Floating island in..... 109		vi
Minor ref. to..... 202		v	Geology of	102	vi
Notes on, by Willmott..... 139, 140		viii	Gold mining on, 1897..... 43, 45		vii
Rocks on..... 250		v		1898..... 276	viii
river, MISSISSAGI RIVER, L. HURON.			<i>See also</i> Regina mine.		
Beavers on..... 172		xii	prospecting near, 1900 146		x
Description of part of 159, 160		xii	Keewatin schist on, photos 80		vi
river, TIMISKAMING LAKE. See Blanche river.			Minor refs. to..... 181		v
Rocks, The, MOOSE RIVER.				90	vi
Gypsum at..... 194		viii	Notes on	110	v
Rock lake, W. OF STURGEON LAKE, TH. B. D.				100	vi
Minor ref. to..... 137		xi		119	vii
Schists on	165	vii	Pine east of..... 185		v
petrography..... 210		x	Whitefish lake, BROUGHAM TP., RENFREW CO.		
			Graphite on. <i>See</i> Black Donald mine.		
			Suggested alteration of name.... 53 A		xiii
			lake, INDIAN RESERVE, SUD- BURY DIST.		
			Nickel found near, 1856..... 235		xii
			lake, L. OF THE WOODS, R.R.D.		
			Rocks on..... 90		vi

	Page.	Vol.		Page.	Vol.
Whitefish lake, MICHIPICOTEN RIVER, ALG.			Whiting, Samuel		
Description of.....	190	vii	Gold mining by, R. R. d.....	232	ii
Glaciation from, to Michipicoten harbour	204	vii		179	vii
Minor ref. to.....	175	A xv	<i>See also</i> Kendall and Whiting. (chalk).		
Rocks on.....	189	vii	Canadian production of, 1886-87.	243	R C
lake, NEAR WHISKEY LAKE, ALG.			lake, W. OF MINNITAKI LAKE, R. R. D.		
Copper mining on.....	67	A xiv	Character of country near.....	176	viii
	70	A xv	Clay area north of.....	182	vii
lake, PIGEON RIVER DIST., TH. B. D.			Gold mining on.....	179	vii
Govt. road to, from Oliver tp....	9	vi	Rocks on.....	170	vii
Rocks on and near.....	143, 144, 147	A xvi	Whitman and Brinton.		
Silver on, mining.....	202	R C	Log of well sunk for, Bothwell field	22	vi
origin.....	36	R C	Oil producing.....	24	vi
rapid, L. OF THE WOODS.			Whitman tp., ALG.		
Photo of.....	80, 81	xii	Notes on country north of...	197, 198	viii
river, L. HURON.			Whitney, D. J.		
Cobalt at mouth of.....	60	B xiv	Talc mining by, near Actinolite.		
Copper mining in. <i>See</i> Wallace mine.				92, 99-101	iii
Minor ref. to.....	202	v	E. J.		
Nickel near mouth of.....	24	R C	Evidence by, before R. C. <i>re</i> :—		
river, THUNDER BAY, L. SU- PERIOR.			free trade.....	235	R C
Agricultural land along.....	206	R C	marble	80	R C
Animikie formation N. of.....	32	R C		62, 63	B xiii
Whitegravel river, L. SUPERIOR, TH. B. D.			H. B.	89	A xv
Description of lake shore near...	135	viii	Isaac	192, 193	xi
Whitehead, A. B.	45	vii	tp., ALG.		
Whiteley, Arthur W. B.			Physical features of.....	106	A xiii
Manager, Ferguson gold mine, 80,	260	vi	Soil from, description.....	131, 132	A xiii
Little American mine..	63	v	Trees in	123	A xiii
Mayflower mine..	84, 85	x	Whitson, J. F.		
Mining by, Seine River dist....	67	v	Letter to, <i>re</i> naming of Fort		
White-pine narrows, LAC SEUL.			Frances.....	40	iv
Pines on.....	61	v	Ref. to surveys by, Rainy Lake dist.....	165	v
Whitesand river, L. SUPERIOR, TH. B. D.			Sudbury dist.		
Zinc on.....	209	ix	156, 158, 187, 201	x	
mining, road required for..	177	i	creek, VERMILION RIVER, NIP.		
<i>See also</i> Zenith mine.			Rocks on.....	45	iii
Whitewash.			slate	207	A xiii
Lime for making.....	14	B xiii	lake, BLEZARD TP., NIP.		
Whitewater, Wis.			Rocks on and near	6, 14, 56, 62	C xiv
Peat milling experiments at....	223	xii	analyses	208	A xiii
	28	A xiii	conglomerate	94	C xiv
Whitewater lake, RAYSIDE AND SNIDER TPS., NIP.			granite	83	C xiv
Rocks on and near:—			greenstone.....	75	i
conglomerate, character.			nickel-bearing, analyses..	212	A xiii
94, 131	C xiv		norite	109	C xiv
nickel-bearing eruptive.			section	204	A xiii
204, 205	A xiii		tuff, analysis.....	132	C xiv
13	C xiv		Whittington, George		
notes by Coleman	38, 39	C xiv	Brick-yard at, Napanee.....	77	B xv
tuffs	6	C xiv	Wiaraton, ANABEL TP., BRUCE CO.		
Lily pond, MICHIPICOTEN DIV., ALG.			Cement works near.....	34	xii
Iron formation on	315, 330, 344	A xiv		139	A xiv
peat press.			proposed	19	B xiii
Notes on.....	28	A xiii	<i>See also</i> Colonial Portland Cement Co.		
Whiting, J. L.	178	iii	Wichniowaia mts., NOVGOROD PROV., RUSSIA.....	213	vii
J. S.			Wick, H.	105	viii
Acknowledgments to.....	105	v	Wickett—?	80	B xiii
Work by, 1895	49	v	Wicklow co., IRELAND.		
			Pyrites deposits in.....	192	A xvi
			tp., HASTINGS CO.		
			Corundum in, probability of....	224	vii

	Page.	Vol.		Page.	Vol.
Widdifield (LATE LAMONT), WIDDI-FIELD TP., NIP.			Wilbur Mg. and Mfg. Co.		
Sangeen clay at.....	21	B xv	Capital and date of charter.....	13	vii
tp., NIP.			Wilcox, C. S.	15	ix
Brick-clay in. <i>See also</i> North Bay.			N. B.....	99	viii
Wiegand, Richard			Thomas		
<i>See also</i> Wiegand gold mine.			Iron claim of, Cowper tp.	274	v
Gold prospecting by, Seine River dist.	81	vi	<i>See also</i> next ref.		
Work by, 1899.....	71	vi	copper mine, COWPER TP.		
Thomas			<i>See</i> Beatty and Wilcox mine.		
<i>See also</i> Wiegand gold mine.			island, PARRY SOUND.		
Foley gold mine found by ...	227, 230	iv	Copper mining on	121	x
William <i>See</i> Wiegand gold mine.				116	xii
(P. O.), SEINE RIVER DIST., R. R. D.	157	v	Wildcat (MINING).		
gold mine, SHOAL LAKE, SEINE RIVER, R. R. D.			Definition of.....	121	i
Notes on, 1894.....	25, 55, 56	iv	Wild Potato lake , SEINE RIVER DIST., R. R. D.		
1895. ...	65, 66, 157-159, 266	v	Bedded veins N. of, sketch	51	iv
1897	75	vii	Gold mining on and near.....	57	iv
Quartz of, character	36	iv		81	viii
Rocks of.....	89	iv	notes by Coleman.		
Gold Mining Co.				66, 67	v
Work by, 1895.....	157-159	v	<i>See also</i> Alice A. mine.		
pt., SHOAL LAKE, SEINE RIVER, R. R. D.			Log Cabin mine.		
Conglomerate at.....	97	v	Porcupine on	154	v
Wieliczka , GALICIA, AUSTRIA.			Rocks on and near	153	v
Salt beds of.....	178	i		129, 130	vii
Wigan , LANCASHIRE, ENGLAND.			Surveys on, ref. to.....	40	iv
Mining and technical school of.	493, 494	R C	Wilde, J. A.	118	ix
Coal and Iron Co.				144	x
Saniter process employed at....	93, 94	ii		75	xi
Wiggin, Henry & Co.	184	iv		67	xii
	178	C xiv	station, DEROCHE TP., ALG.		
Wight, J.	106	vii	Iron mining near. <i>See</i> Breitung		
	105	viii	Iron Co. and Williams mine.		
	118	ix	Kiln plant at.....	23	xii
Wigle, Angus	117	i	Wilder lake , GREY CO.		
J.			Marl in.....	32	xi
Brick-yard of, Leamington.....	64	B xv		32	xii
Wesley	117	i		151	A xiv
Wigwam:			Wile, M.	95	ix
Black river, photo	128, 129	A xiii	Wiley, Andrew Mark		
lake, VERMILION RIVER, NIP.			<i>See also</i> Wiley and Co.		
Gold reported on.....	155	x	Director, Consolidated Mines Co.	257	xi
Wilberforce , MONMOUTH TP., HALI-BURTON CO.				72	A xiii
Mica at.....	203	ix	Iron mining by, Atikokan range.	76	ii
Nepheline-syenite near.....	216	viii	Pic river.....	87	ix
tp., RENFREW CO.				112	x
Marl in	121	A xiv	Licence to.....	144	x
Wilborg, J.	341	xii	Notes by, on McKellar iron mine.		
Wilbur iron mine , PALMERSTON TP., FRONTENAC CO.				111, 112	x
Exhibits of, at Buffalo.....	86	xi	Part owner, Badger silver mine..	83	vii
Chicago.....	78, 80	ii	Treasurer, Consolidated Mines Co.....	19	xi
Notes on, 1899	104, 105	ix	F. S.		
1900	127, 128	x	Licence to.....	118	ix
1901	259, 260	xi		144	x
Notes on, by Folger.....	135	R C	Manager, Sawbill gold mine	4	Bull. i
Merritt	129	R C		76, 77	vi
Photo of.....	289, 290	xi		64	vii
Production of	136	R C	Part owner, Harold Lake gold mine	4	Bull. i
	59	ii		67	vii
Section of formation in.....	129	R C	Silver mining by, Silver mt., 1897	97	viii
			Harold, A.		
			<i>See also</i> Wiley Bros.		
			Analysis by, of iron ore near		
			Black Sturgeon lake.....	313	xii
			Iron ore exhibited by, at Chi-cago	79, 82	ii

	Page.	Vol.		Page.	Vol.
Wiley, Harold A.—Con.			Williams, Prof. George H.		
Licence to.....	118	ix	Description by, of rocks from		
Manager, Hawk Bay mine.....	144	x	Sudbury dist :—		
Notes by, on Atikokan iron	132	vii	arkose.....	150	vii
range.....	72	ii	auriferous.....	92	i
Ref. to surveys by, Atikokan			breccia.....	85	i
river.....	142	v	diabase.....	77, 78	ii
Silver mining by, Silver mt.,			Onaping tuff.....	131 c	xiv
1897.....	97	viii	References to studies by, of Sud-		
Wiley Bros. & Marks.			bury rocks.....	84	i
Acknowledgments to.....	48	v		149	vii
Boring plant purchased by.....	42 A	xiii		206	x
Exhibit of, at Pan-American				290, 291	xii
Exhibition.....	86	xi		107 c	xiv
Gold mining by, Harold lake ...	58	iv	References to surveys by, Mar-		
	69, 146	v	quette dist.....	270 A	xiv
Sawbill lake ...	70	v	Views of, <i>re</i> rocks, Wanapitei dist.	127 c	xiv
Iron mining by, Atikokan range.	75	iv	Greville	144	iv
	133, 266	xi	H. J. Carnegie	12, 68 A	xv
Loon Lake re-				72 A	xvi
gion ... 29-31, 254 A	xiv		J. D.	106	vii
156, 167, 168 A	xv		J. F.		
Marl quarrying by, Thunder bay.	179 A	xv	Analysis by, of tinguaita.....	189	ix
bay AND pt., L. OF THE WOODS,			J. S.		
R. R. D.....	186	v	Notes by, on Michipicoten mines.	103	R C
Wilfing, F. J.	106	vii	Jabez B. (H.B.C.)		
	105	viii	Acknowledgments to.....	48	v
	118	ix	Agent at Lac Seul.....	61	v
Wilke, William			Michipicoten.....	100	viii
Notes by, on manufacture of sul-			Aluminium sulphate reported by,		
phuric acid.....	196 A	xvi	Lac Seul.....	180	vii
Wilkens, H. A. J.	340	xii	Gold found by, near Lac Seul...	62	v
Wilkie, John	55, 57	xi	Licence to.....	105	viii
Wilkinson, E. R.	292	xi	Notes by, <i>re</i> naming of Fort		
Henry	252	iv	Frances.....	41	iv
	282	v	John P.		
Lieut. Gen. Henry C.			Manager, Indian Joe mine.....	94	xii
Asbestos claim taken up by, L.				62 A	xiii
of the Woods.....	114	vii	Ledyard gold mine... 234	iv	
Director, Black Eagle G. Mg. Co.	254	xi	Sawbill mill.... 42, 88	viii	
	58 A	xv		78	ix
Regina Gold Mines....	173	v	Ursa Major mine.....	84	ix
	53, 92, 253	vi		85, 86	x
	73	x	Silver mining by, near Queens-		
Dr. S.	94	viii	boro.....	91 A	xvi
Willemite.			Joseph		
Definition of.....	210	vi	Salt well of, Port Franks....	55, 190	R C
Willetsholme, PITTSBURG TP., FRON-			Views of, on taxed fuel.....	236	R C
TENAC CO.			Richard Harris		
Granite quarrying at.....	297	xi	Evidence by, <i>re</i> royalties, Corn-		
"William Whyte," s.s.	121, 126	vii	wall, Eng.....	31, 32	i
Williams—?			Thomas		
Peat process of.....	193	i	Captain, Gertrude mine.....	123	xii
Albert			Helen mine.....	155	ix
Notes by, on Houghton mining				113, 191	x
school.....	503	R C	Josephine mine.....	71	xi
B.			Z. J. S.	226	iv
Manager, Amy & Folger mica			Bros. and Grey.	220	iv
mine.....	250	ii	Copper Mg. Co.		
See also Black Bay iron mine.			Capital and date of charter.....	31 A	xvi
Charles C.	74	xiii	gold mine, MARMORA TP.,		
	59 A	xiv	HASTINGS CO.		
	71 A	xv	Mispickel in ores of.....	110	R C
David			iron mine, BAGOT TP. See		
Minor ref. to.....	66	ii	Black Bay miné.		
Notes by, on iron deposits W. of					
Port Arthur.....	67	ii			

	Page.	Vol.
Williams iron mine, NEAR WILDE STA., ALG.		
Notes on, 1903.....	74, 75	A xiii
1904.....	12, 44, 59	A xiv
1905.....	14, 71, 72	A xv
Photo of.....	80, 81	A xiii
Iron Mines Co.		
Capital and date of charter.....	37	A xiii
Work by, Loon lake.....	74	A xiii
	71	A xv
lake, HOLLAND TP., GREY CO.		
Marl from.....	32	R C
	32	xii
	18	B xiii
	146	A xiv
analysis.....	108	ix
Williamsburg, STANLEY TP., YORK CO.		
Gravel pit near.....	220	x
tp., DUNDAS CO.		
Limestone in, black.....	39	B xiii
quarries.....	40	B xiii
<i>See also</i> Grantley.		
Williamson, E. D.	49	vi
S. H.	69	A xiii
S. H.		
Gold mining by, near Minnitaki lake.....	23	viii
Marks Mines.		
Capital and date of charter.....	31	A xvi
Willimott, W. C.		
List by, of minerals found in Upper Laurentian.....	11	R C
Williston, Horace	98	ix
Willmott, Arthur B.		
Acknowledgments to.....	181	x
	128	xi
	299	A xiv
	175	A xv
	105	A xvi
Analysis by, of ore, Strathcona nickel mine.....	67	C xiv
Assays of Sudbury ores sampled by.....	199	A xiii
Beaches on L. Superior measured by.....	154	viii
	176	ix
Conglomerate traced by, near Little Gros Cap.....	183	ix
Description by, of Agawa river..	131	viii
Iron prospecting by, Timagami dist.....	88	A xv
Jasper conglomerate found by, N. of Echo lake, Alg.....	124	viii
Licence to.....	144	x
	75	xi
	67	xii
Mine manager for Algoma Commercial Co.....	62	xii
Notes by, on :—		
Batchawana bay and Carp river.....	127, 128	viii
Dog and White rivers.....	134-141	viii
Paper by, on Mineral Industries of Sault Ste. Marie.....	91-100	xi

	Page.	Vol.
Willmott, Arthur B.—Con.		
Reports by, on :—		
Gold region of W. Ontario..	109-144	vii
Michipicoten iron range... ..	254-258	viii
	152-185	xi
mining div.....	Bull.	iii
	181-206	vii
	144-146	viii
Superintendent at Sault Ste. Marie.....	7	xi
Surveys by, Michipicoten div., ref. to.....	165, 166	viii
	160, 161	ix
	195, 196, 200, 201	x
	300	A xiv
	15	A xv
Nipigon Lake dist., ref. to.....	127	A xvi
Work by, 1896.....	71, 102, 104	vi
1897.....	79, 80	vii
1898.....	120	viii
1899.....	143	ix
Willoughby, George	76	vi
tp., WELLAND CO.		
Gas well in.....	20	x
	102	A xiv
log.....	113, 114	A xv
Willow.		
Abitibi dist.....	193	viii
	126	A xiii
injured by willow-gall.....	129	A xiii
James Bay shores.....	130	iv
Kenogami lake, Blanche river..	177	xii
Mattagami valley.....	129	v
Michipicoten div.....	195	vii
	296	A xiv
Oba lake, near.....	198	vii
Seine river.....	74	vi
Shebandowan Lake region.....	128	v
black		
Abitibi Lake reg.....	241, 242	A xiv
gall pine-cone		
Abitibi Lake reg.....	129	A xiii
herb.		
Night-hawk lake.....	123	A xiii
Creek Gold Mg. and Development Co.		
Capital and date of charter.....	13	vii
Wills, J. Lainson		
Notes by, on name "asbestos"..	95	iii
Willson, Hon. John	140	iv
Thomas Leopold		
<i>See also</i> Ottawa Carbide Co.		
Willson Carbide Co.		
Acetylene gas discovered by.....	32	v
	27	vi
	36	xi
Biographical sketch of.....	140	iv
Licence to.....	106	vii
Notes on invention of.....	38-40	v
	19	vii
Paper by, (and Suckert) on acetylene gas commercially considered.....	152-166	iv
Shareholder, Willson Carbide Co.....	22	x
Vice-President, Ottawa Carbide Co.....	21	x
Thomas Whitehead	140	iv

	Page.	Vol.		Page.	Vol.
Willson Aluminium Co.			Wimor gold mine, NEAR KENORA,		
Plant of, at Spray, U. S.	159	iv	R.R.D.		
Carbide Co.			Notes on.....	37	ix
Notes on, 1895.....	37-39	v	Winchell, Prof. Alex.		
1896.....	32	vi	Acknowledgments to.....	143	ix
1897.....	20, 22	vii	Geological formations of Essex co.		
1898.....	17	viii	given by.....	123	xi
1900.....	22	x	Horace V.		
Producing, 1901.....	36, 296 A	xi	Interested in Thunder Bay silver		
1902.....	36 A	xii	mine.....	229	i
1903.....	18 A	xiii	Jasper pebbles found by, Shoal		
1904.....	18, 88 A	xiv	lake.....	97	v
1905.....	23, 107 A	xv	Notes by, on Little American		
Wilmot, Charles W.	108	R C	mine.....	54	iv
Wilson, Dr. A. J.			Minnesota royal-		
Notes by, on iron ores near Black			ties.....	226	ii
Sturgeon lake.....	311	xii	veins of Rainy		
Ref. to surveys by, Abitibi dist..	110 A	xiii	Lake reg.....	70	iv
Alexander	256, 257	ii	Wiegand mine..	56, 57	iv
Alexander	153	iii	Report by, on Foley gold mine..	228	iv
H. M.	53 A	xvi	Iron ores of Min-		
Horace L.			nesota, ref. to..	153	ix
Cobalt prospecting by, Bay lake.	87 A	xv	195, 199	x	
Hugh (1848)	173	ii	Surveys by, N. of Great Lakes,		
Hugh			ref to.....	158	viii
Ref. to map by, Silver islet.....	133	vi	Rainy Lake reg.		
surveys by, E. of L. Superior.	162	ix	42, 83, 89, 92, 93	iv	
	190	x	184	ix	
Dr. James			Seine River dist..	67, 98	v
Fossil tracks found by, Perth....	40	R C	151	vii	
Wilsonite named after.....	188	ii	Views of, <i>re</i> iron ores of Min-		
	242	viii	nesota.....	53	ii
Peter	256	ii	198	x	
R. J.			N. H.		
Brick-yard of, Ganonoque.....	76 B	xv	Notes by, on Keewatin formation.	158 A	xv
Robert	31	viii	Report by, on iron ores of Min-		
	90 A	xv	nesota, ref. to.....	65-69	ii
W. J.			153	ix	
Gold mining by, Michipicoten			195, 199	x	
div.....	105	viii	159, 164 A	xv	
	118	ix	Surveys by, north of Great		
	144	x	Lakes.....	158	viii
Mississagi river.	149	viii	Views of, <i>re</i> iron ores of Min-		
W. J. (GEOL. SURV.)			nesota, ref. to.....	53	ii
Acknowledgments to.....	215, 216	x	Winchester, ILL.		
Refs. to surveys by:—			Paving clay from, analysis.....	120	iii
Abitibi dist.....	205-210 A	xiv	Winchester, WINCHESTER TP., DUN-		
Blanche river.....	174	xii	DAS CO.		
Kenogami Lake dist.....	230	xi	Limestone near.....	40 B	xiii
Kwataboahagan river...180, 181 A	xiii		Cambro-Silurian.....	46, 47 B	xiii
bend, MISSINAIBI RIVER, ALG.	195	viii	tp., DUNDAS CO.		
iron mine, BAGOT TP. See Mar-			Limestone in, fossiliferous.....	40 B	xiii
tel iron mine.			Winckel, Herbert Van	52 A	xiii
iron mine, N. OF PALMER TP.			Wind.		
<i>See</i> Vulcan iron mines.			Effect of, on artesian wells.....	59	i
landing, BLANCHE RIVER, NIP.			Windegoaquinzing (CANNIBAL) lake,		
Description of river near.....	173	xii	S. W. OF MATTAGAMI LAKE,		
tariff bill.			ALG.....	130	ix
Affecting nickel.....	28	vii	Windermere lake, ALG.		
tp., P.S.D.			Notes on, by Charlton.....	199	viii
Copper and iron in. <i>See</i> Loring.			Windham Centre, WINDHAM TP.,		
Wilsonite.			NORFOLK CO.		
Altered form of scapolite.....	225	vi	Limonite in.....	201	ix
Apatite districts.....	442	R C	tp., NORFOLK CO.		
Bathurst tp., analysis.....	211	ix	Limestone in.....	88 B	xiii
Nomenclature.....	188	ii	Windigo Bones pt., IRON LAKE,		
	242	viii	MICHIPICOTEN DIV., ALG.		
Ottawa valley.....	188	ii	Iron formation at.....	318, 319 A	xiv

	Page.	Vol.
Windigo mt., MICHIPICOTEN DIV., ALG.		
Rocks near.....	303 A	xiv
Windigokan lake, NIPIGON LAKE DIST., TH.B.D.		
Iron locations near, notes....	143-145 A	xvi
ranges around, report by Moore.....	136-148 A	xvi
Rocks on and near:—		
classification.....	139 A	xvi
iron formation.....	126 A	xvi
Keewatin.....	119 A	xvi
Topography of dist.....	138 A	xvi
Windigoostigwan (CANNIBAL) lake, R.R.D. AND TH. B.D.		
Minor ref. to.....	136	v
Notes on, by Blue.....	137, 138	v
Rocks on.....	73	v
	131	xi
Windigo-Weas lake, NEAR IRON LAKE, MICHIPICOTEN DIV., ALG.		
Rocks on.....	318 A	xiv
Window-glass. See Glass.		
Windsor, W. SANDWICH TP., ESSEX CO.		
Geological formations at.....	123	xi
Natural gas supply of.....	29	v
factories using.....	19	x
petition against export.....	41, 44	xi
shortage.....	43	xi
statistics.....	42	xi
Route from, to Fort William, notes by Blue.....	107-112	v
Salt in and near, boring for....	33	vi
water.....	59	i
works.....	23 A	xvi
Windsor, HANTS CO., N.S.		
Notes on King's College at.....	511	R C
and Cobalt Mg. Co.		
Capital and date of charter.....	26 A	xv
Gas Co.		
Capital and date of charter.....	24 A	xiii
Salt Co.		
Capital and date of charter.....	10	x
Operating, 1896.....	33	vi
1899.....	111	ix
Tests by, on fuels.....	19	x
-Yukon Mg. Co.		
Capital and date of charter.....	10	viii
Windy lake, CARTIER TP., ALG.		
Rocks near.....	197, 210 A	xiii
lake, CASCADEN AND DOWLING TPS., ALG.		
Absence of gossan on.....	16, 63 C	xiv
Geology of, notes by Coleman, 196, 197 A		xiii
Glaciation near.....	102, 103 C	xiv
gravel plains.....	106 C	xiv
Minor ref. to.....	192 A	xiii
Rocks on and near.....	84	i
acid eruptive, notes and photo. 6, 64, 65 C		xiv
conglomerate.....	94, 131 C	xiv
diabase.....	76	i
gabbro.....	294	xii
greenstone.....	75	i
Laurentian.....	10 C	xiv

	Page.	Vol.
Windy lake.—Con.		
Rocks on and near.—Con.		
nickel-eruptive, character.....	276	xii
and photo. 208-210 A		xiii
norite.....	109 C	xiv
Section to, from Murray mine. With ref. to.....	8 C	xiv
Winger, WAINFLEET TP., WELLAND CO.		
Natural gas in.....	91 A	xiv
log of boring.....	104 A	xiv
quarry, SPRINGVALE, HALDIMAND CO.		
	56 B	xiii
Wingham, TURNBERRY TP., HURON CO.		
Brick-yard in.....	57, 71 B	xv
Onondaga formation at.....	45	R C
Salt at.....	187, 188	R C
depth and thickness.....	184	R C
Salt at, works.....	22 A	xiii
	20 A	xiv
	23 A	xvi
<i>See also Gray, Young, and Sparling.</i>		
Wink, Daniel.....	207	iv
	69	vi
Winning, Bush.....	71	ix
Winnipeg, MAN.		
Country between, and Mattawa. See Woodland div., C.P.R'y.		
C. P. R'y. opened to, 1883.....	171	v
Consolidated gold mine, L. OF THE WOODS.		
A melancholy ruin.....	98	vi
Notes on, by Blue.....	20, 21	iii
Merritt.....	109	R C
<i>See also next ref.</i>		
Consolidated Gold Mg. Co.		
Gold mining by, L. of the Woods.....	26, 64, 115-117, 446	R C
	233	ii
lake, MAN.		
Archæan rocks northward from.	246	v
Gneiss on.....	10	R C
river, MAN.		
Waterpower on.....	252	vii
	14 A	xv
Winter, John S.....	226	i
Winterthur, SWITZERLAND.		
School at, for foremen.....	494	R C
Wire.		
Imports of, Canada, 1881-87.....	254	R C
Rope tramways, notes on... 351-353		R C
Works for making, statistics, 1881.....	116	ii
Wirtanen, Isaac.....	31 A	xv
Wisconsin, U.S.		
Area of.....	193	v
Charcoal in, cost of.....	341	R C
Mining laws in.....	13	i
notes by R. C.....	283	R C
Diamonds in.....	121-124	ix
Iron ores of, production, 1887... 468		R C
1892-3. 146		iii
cost.....	10	i
<i>See also Penokee-Gogebic range.</i>		

	Page.	Vol.		Page.	Vol.
Wisconsin.—Con.			Wolf.—Con.		
Rocks in, Animikie.....	33	R C	Michipicoten div.....	200	A xv
Huronian.....	8	R C	Batchawana river.....	203	viii
	246	v	Nipigon Lake dist.....	139	A xvi
University.			Timagami Lake dist.....	58	R C
Notes on, by Richards.....	512	R C	Dr.		
Wiser & Son, J. P.			Alloys of nickel made by.....	383	R C
Brick-yard of, Prescott.....	65	B xv		165	C xiv
analysis of clay for.....	15	B xv	lake, BEDFORD TP., FRONTENAC		
Wisner, W. S.			CO.		
	33	xii	Apatite mining in.....	230	ii
	18	B xiii	Magnetic iron sand on.....	48, 49	ii
	154	A xiv	pt., L. OF THE WOODS.....	186	v
tp., Nip.			river, L. SUPERIOR, TH. B. D.		
Geology of.....	202	A xiii	Galena on.....	38	R C
Iron ore in.....	201	x	Zinc on.....	15	A xiv
	16	A xvi	sta., C. P. RY., TH. B. D.		
Moraine in.....	102	C xiv	Lead mining near.....	87	A xiii
Rocks in.....	274	xii	Wolfe, Frederick.....	164	R C
	71-73	C xiv	creek, LOON LAKE, ADDINGTON		
diabase.....	203	A xiii	CO.		
petrography.....	213	A xiii	Rocks near mouth of.....	201	xi
Huronian.....	127	C xiv	island, L. ONTARIO.		
iron-bearing, notes... 185,	186	x	Limestone on, analysis.....	44	B xiii
nickel-bearing.....	211	A xiii	Cambro-Silurian. 43, 44	B xiii	
tuff.....	132	C xiv	Flint on.....	198	ix
Wissuan, M.....	106	vii	Wolff, Dr. J. E.		
Witch bay, L. OF THE WOODS, R.R.D.			Notes by, on taconyte.....	164	A xv
Gold mining in, 1899.....	44	ix	Surveys by, Mesabi iron range,		
1902.....	96	xii	ref. to.....	199	x
Witch's cauldron, L. OF THE WOODS,			Lane & Co.....	119	ii
R.R.D.....	169	v	Wolford tp., GRENVILLE CO.		
Wither's mine, THUNDER BAY, L.			Calciferous formation in.....	47	B xiii
SUPERIOR.			Wolframite.		
Argentite in, analysis.....	194	ix	Couchiching lake.....	194	ii
Witherbees, F. S.				233	vii
Analysis by, of iron ore concen-				212	ix
trates.....	350	R C	Description of.....	217	vi
See also next ref.			Hardness and specific gravity of.	202	vi
Sherman & Co.			Wollaston tp., HASTINGS CO.		
Iron mines of, N. Y.....	349	R C	Chalcopyrite in.....	196	ix
tests on ores from.....	477	R C	Iron ore in.....	133	R C
Witherite (BARIUM CARBONATE).			exhibited at Chicago. 78, 79, 82	ii	
Composition of.....	535	R C	magnetite, analysis.....	202	ix
Description of.....	222	vi	mining. See Coe Hill.		
Port Arthur silver dist.....	57, 58	B xiv	Mispickel in.....	104, 198	xi
Porcupine mine.....	194	ii	Pyrrhotite in.....	207	ix
	212	ix		200	A xvi
Witherow, J. B.			Wollastonite (CALCIUM SILICATE).		
Estimates by, of cost of iron			North Burgess tp.....	194	ii
smelting..... 334, 335, 389,	394	R C		212	ix
	112	ii	Wolseley, Sir Garnet		
Wittichen, GERMANY.			Description by, of storms in		
Silver-cobalt ores at.....	62	B xiv	Shebandowan Lake dist.....	120	v
Witty, W.....	32	A xv	"Narrative of Red River Expedi-		
WN 5 gold loc., RESERVE ISLAND,			tion" by, ref. to.....	135	v
SEINE RIVER, R. R. D.			Notes by, on cannibalism among		
Notes on, by Bow.....	94, 95	viii	Indians.....	138	v
Woehler, H. C.....	106	vii	Ref. to route taken by Red River		
	101	viii	Expedition.....	134	v
Wohler, F.....	142, 144, 153	iv	Wolsey lake, MANITOULIN ISLAND.		
Woidoma, RUSSIA.			Niagara formation at.....	78	B xiii
Peat manufactured at.....	218	ii	Wolst-Rees Cobalt Silver Mg. Co.		
Wolcott, WAYNE CO., N. Y.			Capital and date of charter.....	31	A xvi
Iron smelting at, 1835.....	323	R C	Woman river, W. OF RICE LAKE,		
Wolf.			ALG.		
Abitibi dist.....	127	A xiii	Iron ore on.....	317	xii
Attracted by red deer.....	97	iv		15	A xv
			character.....	137	xi

	Page.	Vol.		Page.	Vol.
Woman river.—Con.			Woodside, J. H.	107	x
Jasper ore north of.....	187-201	x	John	229	i
Minor ref. to.....	132	ix	Woodslee, ROCHESTER TP., ESSEX CO.		
Wonderland Silver Mg. Co.			Boring near, for oil.	111, 114	A xv
Capital and date of charter.....	31	A xvi	Woodstock, E. OXFORD TP., OXFORD		
Wonderly Gold Mining Co.			co.		
Capital and date of charter.....	9	x	Brick-yard at, description.....	86	B xv
Wood.			Court house of, building-stone of.	99	i
Analysis of.....	166	vi	Limestone near, Corniferous....	142	xii
As a fuel.....	200	ii		33, 91	B xiii
Calorific power of.....	186	i		fossiliferous. 148, 153	xii
	166	vi	Woodward, Martin		
	54	B xv	Notes by, on oil industry at		
Gasifying of.....	484	R C	Petrolea.....	156-158	R C
Products of carbonized.....	482	R C	Oil prospecting by.....	19, 22	vi
Scarcity of, increasing.....	203	ii	W	75	xi
<i>See also</i> Trees.			Woodwell & Co., Joseph	118	ii
alcohol.			Woodworth, G. L.	237	i
As by-product of charcoal fur-				59	ii
naces. 391, 481, 482		R C	J. B.	81, 86	A xv
peat.....	210	i	Prof.	242	A xiii
Made by Rathbun & Co.....	88	R C	Woodyat tp., R. R. D.	164, 167	v
charcoal.			Wool oil.		
Analyses of.....			As by-product of petroleum. 158, 163		R C
<i>See also</i> charcoal.....	166	vi	Woolwich, KENT CO., ENGLAND.		
A. C.	38	xi	Torsion tests at.....	385	R C
A. T.	46	v	tp., WATERLOO CO.		
	15, 222	ix	Brick-yard in. <i>See</i> Conestogo.		
H. H.	66	ix	Worcester co., MASS.		
	94	x	Peat bogs in.....	28	A xiii
	242	xi	free= school, MASS.		
J. A.	73	A xiv	Notes on, by Mathers.....	505	R C
S. C.	66	ix	Wordsworth.		
W. H.			Quotations from.....	2	B xiii
Brick-yard of, Brockville.....	77	B xv	Workman, J.		
William	45	A xv	Brick making by, Brantford....	59	B xv
W. D. & Co.	370	R C	J. K.		
Woodall, William	491	R C	Report by, on explorations in		
Woodbridge, N. J.			McCann tp.....	248-253	A xiv
Analysis of clay from.....	120	iii	World's Columbian Exposition.		
	160	A xiii	Catalogue of iron exhibit at,		
oil-well, COLCHESTER TP,			from Ont.....	78-82	ii
ESSEX CO.....	113, 114	A xv	Ontario's exhibit at.....	83, 88	xi
Woodburn, A. S., J., AND H. P.	144	x	notes.....	185-194	ii
Woodbury, —?	140	C xiv	Worms.		
Woodchuck gold mine, CLEARWATER			Abitibi dist.....	129	A xiii
BAY, L. OF THE WOODS.			Worthington, C. P.	118	ix
Notes on, by Bunting.....	118	R C		144	x
Woodhouse tp., NORFOLK CO.				75	xi
Bituminous shales in. <i>See</i> Port			James	104	ii
Dover.				186	iii
Limestone in, analysis.....	88	B xiii	Worthington, DRURY TP., ALG.		
Corniferous.....	118	B xiii	Agricultural land near.....	106	C xiv
Woodhus, A.	114	xii	clay plain, altitude.....	103	C xiv
Woodland div., C. P. R'y.			Gold mining near. <i>See</i> Dwyer		
Description of, by C. P. R. en-			mine.		
gineers.....	108-116	iv	Nickel mining near. <i>See</i> Totten		
Woodlawn, CLEARFIELD CO., PENN.			mine and Worthington mine.		
Paving clay from, analysis.....	120	iii	Rocks at and near.....	127	C xiv
Woodman, Frank	43	iii	<i>See also</i> Worthington mine.		
Woodpecker.			nickel mine, DRURY TP., ALG.		
Abitibi dist.....	253	A xiv	Actinolite in.....	292	xii
downy			Arsenic production of.....	28	xi
Abitibi dist.....	126	A xiii	Folgerite from, analysis and des-		
hairy			cription.....	167, 168	ii
Abitibi dist.....	126	A xiii	Galena in.....	282	xii
pileated			Gersdorffite in.....	19	C xiv
Abitibi dist.....	243	A xiv	Iron pyrites in... ..	16	C xiv
Woods, Joseph <i>See</i> next ref.			Marcasite in.....	158, 159	C xiv

	Page.	Vol.
Worthington nickel mine.—Con.		
Minerals in.....	31, 159	c xiv
new (?).....	192	ii
Molybdenite in.....	161	c xiv
Nickel ore in.....	90	i
morenosite.....	163	c xiv
niccolite.....	19	c xiv
percentage.....	142	c xiv
Notes on, 1891.....	231	i
1892.....	248	ii
1893.....	185, 186	iii
1894.....	246	iv
1895.....	273	v
1902.....	58, 286, 287	xii
Pentlandite in.....	206	ix
.....	281	xii
15, 16, 159		c xiv
Pyrrhotite crystal in.....	280	xii
Refining plant near.....	144	c xiv
Rocks in and near.....	143	vii
gabbro.....	272, 273, 295	xii
.....	8, 31	c xiv
gossan.....	280	xii
greywacké.....	88	c xiv
norite.....	114	c xiv
offset-deposits.....	25, 30, 50	c xiv
slate.....	93	c xiv
Section of.....	30	c xiv
and plan.....	270, 271	xii
WR 5 nickel loc. See Ross nickel mine.		
56-58 gold locs. See Big Six mine.		
92 copper loc. See Reynold's claim.		
108, 121 iron locs., MORIN LAKE, ALG.	224	A xiii
352 copper loc., WHITEFISH LAKE, NEAR WHISKEY LAKE, ALG.		
Chalcopyrite masses in.....	70	A xv
Wragge, E.		
Table by, of trials of fuels in locomotives.....	204, 205	i
Wright, A. A.	237	ii
Prof. A. A.	154, 155	xii
.....	69, 70	B xiii
C. B. See Wright plaster quarry.		
C. H. C.		
Minor ref. to.....	215	i
Tests by, on mortars.....	170	A xiv
paving bricks.....	129	iii
Carroll D.	84	ii
Charles	26	ix
David A.	34	xii
.....	19	B xiii
.....	139	A xiv
E.	51	A xvi
E. V.		
Evidence by, before R. C. re :—		
iron, Timiskaming dist.....	142	R C
mica, Petawawa river.....	151	R C
mining laws.....	313	R C
Part owner, Gold Mountain mine.	186, 187	v
J. R.	232	ii
James		
Gypsum mining by, Brantford tp.	282	v

Wright, John K.

Evidence by, before R. C. re :—		
gold mining, L. of the Woods.	116, 446	R C
mining laws.....	313	R C
Gold prospecting by, L. of the Woods.....	21	iii
M. P.		
Acknowledgments to.....	102, 103	vi
Gold prospecting by, L. of the Woods.....	101, 102	vi
Manager, Gold Mountain mine..	187	v
Part owner, Sullivan mine.....	45	vii
Trojan mine.....	43	vii
S. B.		
Manager, Cobalt refining plant..	65	A xv
.....	65	A xvi
Notes by, on Deloro gold mine..	103	xi
ref. to.....	32	B xiv
Whitaker and Davidson.	172	c xiv
Oil producing, 1896.....	24	vi
creek, BLANCHE RIVER, QUE.		
Course of.....	36	B xiv
Minor ref. to.....	215	xi
Morainic deposits near.....	214	xi
plaster quarry, NEAR MECHANICSVILLE, CARLTON CO.	33, 37	B xiii
silver mine, L. TIMISKAMING, QUE.		
Ancient knowledge of.....	10	B xiv
Notes on, by Miller.....	101	A xiii
.....	24	B xiv
Ore of, character.....	7	A xvi
Rocks on and near.....	86	B xiii
Silver Mg. Co.		
Capital and date of charter.....	31	A xvi
Wrought iron.		
For furnaces.....	377	R C
Wroxeter, HOWICK TP., HURON CO.		
Boring at, for salt.....	55	R C
WS arsenic loc. See Little Dan mine.		
Wulfenite (LEAD MOLYBDATE).		
Description of.....	218	vi
Hardness and specific gravity of.	202	vi
Wurtemberg, GERMANY.		
Moss litter made in.....	212	ii
Tax in, on mineral industry....	297	R C
Wyandotte, WAYNE CO., MICH.		
Iron works at.....	479	R C
Refinery at.....	142, 143	vi
Wyatt, Dr. Francis		
Ref. to "Phosphates of America" by.....	15	i
Statement by, re cost of calcium carbide.....	165	iv
Wylde, E. C.	178	A xvi
Wylde, DEROCHE TP., ALG.		
Hematite near.....	139	xi
Wylie, W. H.		
See also Wylie and Hall.		
Evidence by, before R. C. re :—		
cost of charcoal iron.....	393	R C
ref. to.....	333	R C
galena, Ramsay tp.....	146	R C
iron, Darling tp.....	140, 141	R C
marble, Darling tp.....	83	R C
mining laws.....	316	R C
tariffs.....	233	R C

	Page.	Vol.		Page.	Vol.	
Wyllie, W. H.—<i>Con.</i>			X 830 iron locs., EAST OF L. NIPIGON, TH. B. D.	123, 124, 132 A	xvi	
Iron mining by, Darling tp.	141	R C	857, 858 iron locs., STRAW-HAT LAKE, NEAR STEEP-ROCK LAKE, R. R. D.			
Licence to	106	vii	Notes on, by Fraleck . . .	173, 175 A	xvi	
	105	viii	Xenotime.			
	118	ix	Calvin tp	212	ix	
McIlwraith pyrites mine found by	153	A xvi	X-ray photos.			
Manager for Corona Mg. Co.	114	ix	Of corundum grains	216, 217	viii	
Hastings Gold Reduction Co.	61	iii	notes on	240	viii	
Notes by, on a pyrites deposit, Darling tp.	150	A xvi	X. Y. Company.			
and Hall.			Historical notes	198	v	
Iron ore exhibited by, at Chicago.	80	ii				
Report to, <i>re</i> iron in Lanark co.	333, 334	R C	Y 103 gold loc., MAC KAY PT., WAWA LAKE, ALG.	114	ix	
Wyllie, Robert			352 copper loc., NEAR WHITE-FISH LAKE, ALG.	67 A	xiv	
Brick-yard of, Owen Sound.	66	B xv	Y=One Mining Co.			
Wyoming, U. S.			Capital and date of charter.	13	vii	
Gypsum deposits in	119	R C	Y silver mine, PORT ARTHUR REG., TH. B. D.	199	R C	
Mining laws of, notes by R. C.	284	R C	Yaack, L.			
			Brick-yard of, Walkerton.	60	B xv	
X 90 gold loc. See Black Jack mine.			Yale college.			
139, 212, 238 iron locs., ATIKOKAN RIVER, R. R. D.	142	v	Notes on scientific school of	504, 505	R C	
213 gold loc., SEINE BAY, RAINY LAKE, R. R. D.			Yamary, Joseph	25 A	xiv	
Notes on, by Coleman.	74	iv	Yankee Doodle Mg. Co.			
Origin of ore in	141	xi	Capital and date of charter.	13	vii	
219 gold loc. See Harold Lake mine.			iron mine, S. CROSBY TP., LEEDS CO.			
277 gold loc., N. OF RESERVE ISLAND, SEINE RIVER, R. R. D.	132	vii	Ore of, percentage of iron in.	45	ii	
313, 314 gold locs. See Sawbill mine.			Yarker, E. CAMDEN TP., LENNOX CO.			
316=322, 337, 338 gold locs. See Hammond Reef mine.			Analysis of limestone from.	27	B xiii	
324 gold loc. See Hawk Bay mine.			Yarmouth tp., ELGIN CO.			
325 gold loc., JACK LAKE, R. R. D.			Artesian well in. <i>See</i> Union.			
Notes on	75	vi	Brick clay and yards in. <i>See</i>			
	132	vii	Orwell and St. Thomas.			
	81	ix	Erie clay in. <i>See</i> Port Stanley.			
327, 328 gold locs. See New Golden Twins mine.			Yaunkin, F.	106	viii	
361 gold loc. See Wampum mine.				108	ix	
361 (SOUTH $\frac{1}{2}$) gold loc. See Kabaskong mine.				144	x	
401 gold loc. See Toronto and Western Mines Dev. Co.				75	xi	
590=592 gold locs., NEAR MIDDLETON, TH. B. D.			Yellow copper ore. See Chalcopyrite.			
Notes on	82	vii	falls, MATTAGAMI RIVER, ALG.			
<i>See also</i> Leo Mg. and Dev. Co.			Description of river near.	121, 129 A	xv	
672, 673 gold locs., NEAR JACK-FISH, TH. B. D.	81	ix	Photo of	130 A	xv	
682=685 gold locs., ISLAND FALLS, SEINE RIVER, R. R. D.	82	ix	fever.			
776 pyrites loc. See Otisse mine.			Connexion of, with discovery of nickel-steel	168	C xiv	
800=809 iron loc., PIC RIVER, L. SUPERIOR.			Jacket Gold Mg. Co.			
Notes on, 1900	112	x	Capital and date of charter.	13	vii	
826=829 iron locs., EAST OF L. NIPIGON, TH. B. D.			ochre.			
Notes on, by Bain	212, 213	x	<i>See also</i> Ochre.			
Coleman	124	A xvi	Composition of	463	R C	
			sulphide of arsenic. See Orpiment.			
			Yellowgirl bay, L. OF THE WOODS, R. R. D.			
			Gold mining on.	6	Bull. i	
			<i>See also</i> Homestake gold mine.			
			Indian conjuring booths on, notes.	80, 81	vi	
				photo.	93	vi
			Nomenclature of	181	v	
			Yen, Charles.	236	v	
			Yenite. See Ilvaite.			

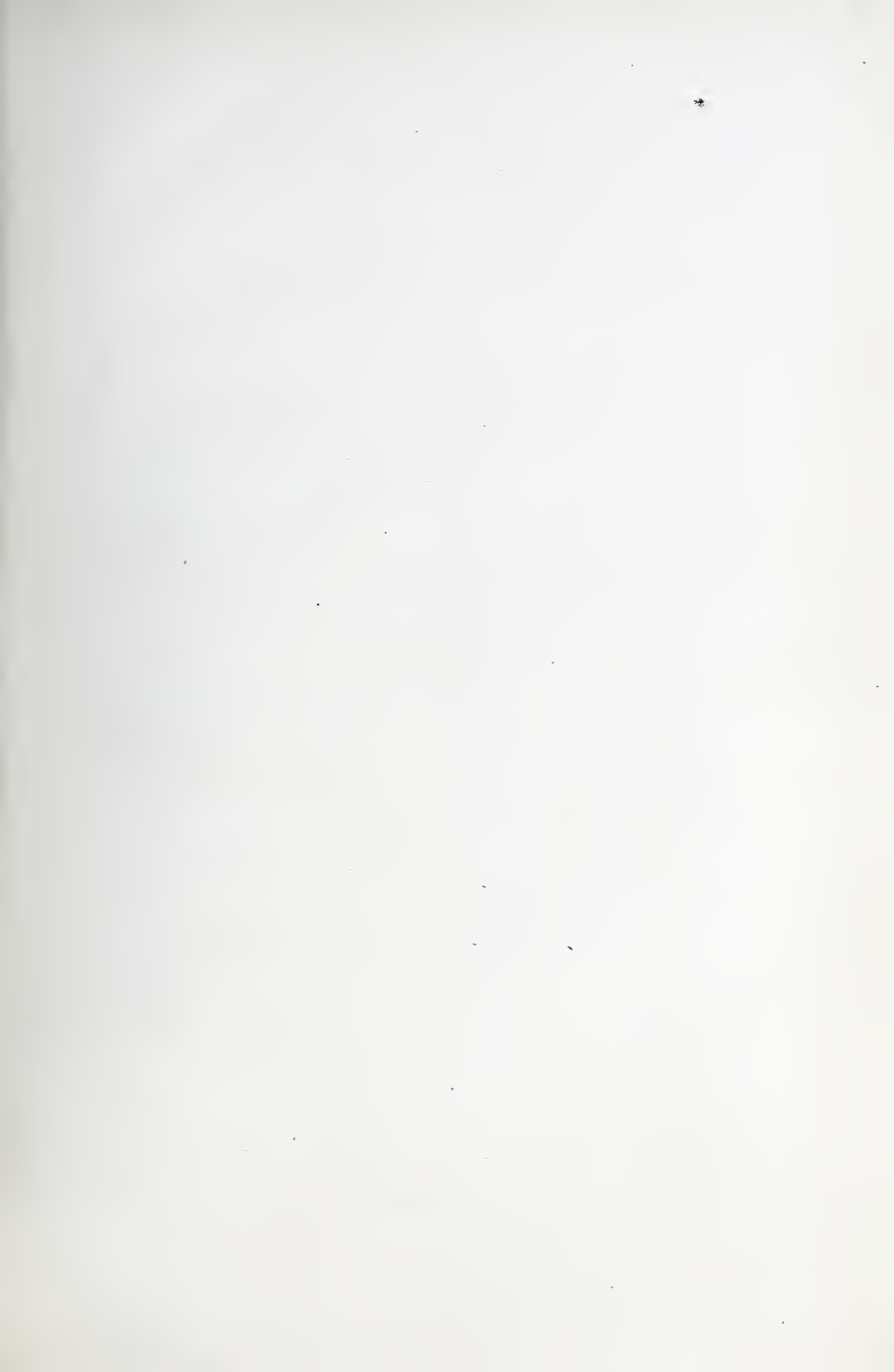
	Page.	Vol.		Page.	Vol.
Yeo island, THE THOUSAND ISLANDS.			Young Point, SMITH TP., PETERBORO'		
Tourmaline on	211	ix	CO.		
Yeoman, T. H.	234	iv	Water-power at	32	xi
W. G.	263	v		149 A	xiv
Yeomans, Andy	53, 57	xi	process.		
E.	40, 41 A	xiii	For enriching gas	147	iv
Yerkes lake, HUTTON TP., NIP.			Young's Lake Mg. Co.		
Iron ore near	224 A	xiii	Capital and date of charter	25 A	xiv
Yoke lake, MANITOU LAKE DIST.,			Youngstown-Cobalt Silver Mg. Co.		
R.R.D.			Capital and date of charter	31 A	xvi
Rocks in, Keewatin	50	iv	Youngwood, PA.		
schists	62	iv	Nickel refinery at	131	ii
Yonge tp., LEEDS CO.			Yssel river, HOLLAND.		
Calcareous formation in	72 B	xiii	Brick-kilns along, peat used in..	216	ii
Clay flats in. See Mallorytown.			Yte.		
Marl in	73 B	xiii	As a rock termination	448	R C
	121 A	xiv	Yttrium.		
York, SENECA TP., HALDIMAND CO.			Lyndoch tp.	236	vii
Altitude of	234 A	xiii	Yukon Nugget Gold Mg. and Ex-		
Ballast pits at	238 A	xiii	ploration Co.		
Gypsum near	53 B	xiii	Capital and date of charter	13	vii
See also Martindale mine.			Klondike Co-operative Mg.		
Limestone at	52 B	xiii	Co.		
York, YORK CO. See Toronto.			Capital and date of charter	10	viii
Branch river, MADAWASKA			Mutual Mg. and Exploring		
RIVER.			Co.		
Corundum on and near	64, 65	vi	Capital and date of charter	13	vii
	219-221	vii	river, YUKON.		
	20	ix	Platinum on	142	vii
	84 A	xvi	Yum-Yum gold mine, SHOAL LAKE,		
exhibited at Buffalo	87	xi	L. OF THE WOODS.		
mining. See Canada Corun-			Idle	280	viii
dum Co.			Notes on, 1897	49, 120	vii
Explorations along; Murray's			1898	276	viii
map of	217-222	viii	1899	58	ix
Limestone from, analysis	66 B	xiii	Photo of	64	vii
Photos of	232, 233	viii	Gold Mining Co.		
Syenite on	216, 250	viii	Capital and date of charter	7	vi
Waterpower on	66	vi		13	vii
	215, 220, 237	viii			
co.					
Brick making in, notes	107-114 B	xv	Zabriskie, William H.	141	vi
Limestone in, notes by Miller ..	126 B	xiii	Zadi lake, OPASATIKA RIVER,		
Peat in	198, 209	ii	ALG.		
Estate quarry, CREDIT FORKS,			Dimensions and depth of	136 A	xiii
PEEL CO.	98	i	Remnant of a larger lake	145 A	xiii
Factory, HUDSON BAY, KEE.			Zagloba claim, MICHIPICOTEN RIVER,		
Mission at	192	viii	ALG.		
tp., YORK CO.			Notes on, 1900	138, 139	x
Beach in	229 A	xiii	1901	72, 73	xi
Limestone in. See Don, and			Zanesville, OHIO.		
Weston.			Pressed-brick works at, notes ...	101	i
Sewer-pipe works in. See Swan-			Shales from, analysis	119	iii
sea.			co.		
Tufa beds in	126 B	xiii	Notes on, by Bawden	133, 134	R C
Yorke, Lionel			Zaphrentis.		
Sandstone quarries of, Credit			Jawbone creeks, Abitibi river...	182	viii
Forks	74, 79	R C	" gigantea.		
	98	i	Abitibi river	187	viii
Yorkshire, ENGLAND.			Cayuga, N. tp.	146	xii
Coal in, royalty on	22, 25	i	Kwataboahagan river	181 A	xiii
Youmans, Damon	214	v	Port Colborne (near)	35	xi
Young, M. W.			Villanova	143	xii
Prospecting by, Boston tp.	54 A	xvi	Woodstock	148	xii
Peter	227	i	" mirabile.		
lake, W. OF STURGEON LAKE,			Cayuga, N. tp.	146	xii
TH.B.D.			Walpole and Townsend tps.	143	xii
Minor ref. to	147	xi			
Schists on	165	vii			

	Page.	Vol.
<i>Zaphrentis prolifica</i> .		
Abitibi river.....	187	viii
Anderdon tp.....	125	xi
Beachville, near.....	148	xii
	92 B	xiii
Cayuga, N. tp.	146	xii
Hagersville	145	xii
Port Colborne (near).....	35	xi
St. Marys.....	152	xii
	96 B	xiii
Thedford	154	xii
	8, 75 B	xv
Walpole and Townsend tps..	143, 144	xii
" <i>schumardi</i> .		
Rockford and Villanova	143	xii
Zavitz, Prof.	44 A	xv
Zealand tp., R. R. d.		
Iron in	136	xi
Rocks in, petrographical notes ..	145	xi
Zenith Gold Mg. Co.		
Capital and date of charter.....	10	viii
iron mine, ELY, MINN.....	152	ix
	175	xi
zinc mine, NEAR ROSSPORT, L.		
SUPERIOR.		
Minor refs. to.....	30	R C
	209	ix
Notes on, 1899	86, 87	ix
1900	110	x
1901	298	xi
1902	25	xii
by Bell	30	R C
Production, 1901	27	xi
Zeolites.		
Definition of	545	R C
Lake Superior	37	R C
	212	ix
Mamainse pen	81	iii
Mode of occurrence	227	vi
North Burgess tp., with apatite..	440	R C
Ziegler, M.		
Peat process of, notes.....	2	A xiii
Zimmerman, George	131	i
and Brown. See Brown and Zimmerman.		
Zinc AND zinc-blende (SPHALERITE).		
Annaberg, Saxony	61 B	xiv
As an alloy of nickel	160	ii
Calumet island, Que.....	87	ix
Description of.....	545	R C
Determination of.....	529	R C
	204, 210	vi
Hardness of	202	vi
Joachimsthal, Bohemia.....	61 B	xiv
Mining of, report for:—		
1898	33	viii
1899	36, 87	ix
1900	110, 129	x
1901	27, 298	xi
1902	25, 139	xii
1903	11, 94	A xiii
1904.....	79	A xiv
1905.....	91-94, 170	A xv
1906.....	18	A xvi
Ores of, notes by Goodwin.....	210, 211	vi
Occurrences of.....	209	ix
Prospecting for, hints on	459	R C
Specific gravity of.....	202	vi

	Page.	Vol.
Zinc AND zinc-blende.—Con,		
Statistics, 1899.....	13	ix
1900.....	11, 12	x
1901.....	13, 27	xi
1902	12, 13, 25	xii
1903	2 A	xiii
1904	1, 3, 15	A xiv
1905	5 A	xv
1906	3-6, 18	A xvi
Sulphur associated with	22 A	xvi
Test for	449	R C
United States, production, 1888..	525	R C
Wales, associated with gold....	45	i
Abitibi lake	442	R C
	219 A	xvi
Barrie tp.....	203	xi
	77 A	xiv
Cobalt dist.....	xi, 101	A xiii
Coleman tp.....	12 B	xiv
Garden river.....	30	R C
See also Victoria mine.		
Jackfish lake (Huronian m.)....	62	R C
	77, 80	v
Lady Evelyn lake.....	25 B	xiv
Lake of the Woods, K. 157 island.	104	vi
Lake Superior:—		
Caldwell pt.....	149	ix
Jackfish bay.....	26, 62	R C
Jarvis island	198	R C
McKellar island.....	62	R C
Silver islet.....	86	v
	139	vi
Lake tp. See Katherine m.		
Marmora	38	iv
Olden tp., Long Lake P.O.....	25	xii
See also Richardson m. i		
Palmerston tp.....	219	v
Parry Sound, south of.....	100	iv
Port Arthur dist., silver ores....	38	iv
	54-58 B	xiv
	61 A	xvi
Blende lake	30	R C
	170 A	xv
Dorion tp.	37	R C
	59 A	xiii
evidence before R.C...61-63, 190-203		R C
notes by Merritt.....	204	R C
Three A mine.....	28	R C
Thunder bay	177	i
Sudbury dist.....	91, 92	i
	95 C	xiv
Chelmsford, notes.....	33	viii
evidence before R. C.....	59	R C
Trout lake, Howell tp.....	201 A	xiii
	71, 121	C xiv
Whitesand river	30	R C
	177	i
See also Gesic mine.		
Zenith mine.		
silicate. See Calamine.		
spar. See Smithsonite.		
spinel.		
Raglan tp.....	237	viii
white		
Manufacture of	463	R C
United States, production, 1888..	525	R C

	Page.	Vol.
Zincite (RED ZINC ORE).		
Description of.....	210	vi
Hardness and specific gravity of.	202	vi
Zircon.		
Associated with apatite.....	442	R C
Bancroft, near, in syenite.....	212	ix
Canadian crystals of, the best...	9 B	xiv
Description of.....	545	R C
Dungannon tp.....	211	vii
Exhibit of, at World's Fair.....	188	ii
Hardness of.....	202	vi
Notes on, by Goodwin.....	228	vi
Pic island, L. Superior.....	212	ix
Renfrew co.....	438	R C
Brudenell tp.....	212	ix
Sebastopol tp.....	219	vii
.....	212	ix
St. Lawrence river, Que.....	214	vii
Specific gravity of.....	202	vi
Zirkel, F.		
Analyses by, of anorthosites and bytownite.....	226, 227	viii
Zoccali, Guisepepe	29 A	xv
Zoisite.		
A secondary constituent in many rocks.....	212	ix

	Page.	Vol.
Zone Consolidated Oil Co.		
Capital and date of charter.....	31 A	xvi
tp., KENT CO.		
Oil in.....	15	viii
<i>See also</i> Bothwell.		
boring for.....	5	v
.....	18-21	vi
record.....	109 A	xiv
production, 1905.....	92 A	xvi
Zonochlorite.		
Nipigon bay.....	194	ii
.....	212	ix
<i>Zonotrichia albicollis.</i> <i>See</i> Sparrow, white-throated		
<i>Zoophyta.</i>		
Anderdon tp.....	124	xi
Zueker-Levett Chemical Co.	122	xi
Zug & Co.		
Iron output of, 1893.....	119	ii
Labour employed by, statistics..	370	R C
Zululand, S. AFRICA.		
Mineral lands in, ownership of, (1890).....	43	i
Zwickau, SAXONY.		
Mining school at.....	496	R C



Appendix

Index of Part II., 10th Report Bureau of Mines, 1907, third edition.

(The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming).

	PAGE.		PAGE.
Abitibi branch	136	Antigorite	163
Acanthite	158	Antimonial silver	4, 155
Accidents at Cobalt mines	68	Antimonide	4, 155
Ages of rocks	42, 47	Antimony	5
Ages, relative of minerals in veins	10, 33, 158	Anvil lake	36, 117, 125
Amethyst	158	Ores of	67
Agricultural area north of Cobalt	34	Apatite	1
American Institute of Mining En- gineers	67	Aplite dikes	65, 124, 165
Amphibolite	120	Appendix I, II	171, 182
Amygdaloidal texture	43	Aragonite	158
Analyses:—		Archean formation, silver deposits in. <i>See</i> pre-Cambrian	154, 155
Breccia	58	Archean protaxis	1
Bismuth, native	9	Argentite	4, 6, 14, 151, 155, 158
Calcite	10	Argentopyrite	158
Chloanthite	8	Argillite	155
Clay	35	Argyropyrite	4
Cobalt Hill ore	10	Arkose	43
Cobaltite	9	Arkose, in Casey	133
Cross Lake rocks	64	Arkose and granite, Ville Marie ...	48
Dyscrasite	10	Of Montreal river	118
Exhibit collection	13	Arsenates, list of	4, 155, 158
Limestone	34	Arsenic mines. <i>See</i> Silver-cobalt mines, mispickel mines	32
Minerals	7	Arsenic, native	5, 158
Mispickel ore	9	Arsenic ore	11, 13, etc.
Native bismuth	9	Analyses of	11, 13, etc.
Nicolite	8	At Rabbit lake	30
Ore from Rabbit Lake	30	Deposits of near lake Temagami	9
Sample from Trethewey mine ...	14	Exhibits of	13
Shipments	15	In Joachimsthal deposits	157, 158
Silver-cobalt ore	13	In Keewatin	32
Slate	58	In lake Superior silver deposits	155
Smaltite from Cobalt Hill	11	Production of	32
Smaltite from Gunnison Co., Col.	166	Refining plants.....	1, 32, 168, 170
Tetrahedrite	8	Value of	32
White bloom	7	Arsenic, white	32
Ance à la Mine	2, 6, 66	Uses of	32
Andesite	166	Value of	32
Andesites, Keewatin	49	Arsenical pyrites	155, 158, 162
Anglo-French Nickel Co., ore buyers	24	Arsenides, list of	4
Anima-nipissing lake	36, 138, 146	Arsenopyrite	162
Ores of	67	Asbolite	4, 158, 163
Animikie formation	31	Ash rocks	49
Silver deposits in	152	Atikokan iron range	31
Animikite	152	Auld	36
Annaberg. mineral deposits of, 44, 157, 158		Austria, cobalt deposits of	157
Annabergite	4, 6, 7, 155, 158	Auriferous arsenic ore.....	1
Annabergite, white bloom	7	Average annual price of silver.....	27
Annual average prices of silver ...	24	Average value of ore shipped	16, 17
Anson-Cartwright, R.	42	Azurite	155
Anticline	11		
Anticlinals in Huronian	46	Badger mine	71
Anticlinal structure	59	Bad Vermilion lake	157

	PAGE.		PAGE.
Bailey mine	20, 71	Buffalo mine	9, 15, 17
Baker, M. B., on clay	35	Described	68
On Keewatin	45	Building stone	33
Balbach Smelting Co.	21	Bulletin du Commerce, le, New	
Baleo, Lower California, cobalt at	166	Caledonia, on the cobalt indus-	
Banks township	117	try	166
Barber township	36, 121	Buried iron range	31
Barite	1, 125, 150, 155, 166, 182	Burrows, A. G., analyses by ...	7, 58, etc.
Barium, carbonate of	155	On Lower Lorrain	147
Barlow, Dr. A. E.	48, 139	Buyers of cobalt	21, 185
Report on Sudbury ore deposits,			
by	3	Cahill & Joudouin's camp	129
Basalt, later, Cross lake.....	41, 44, 64	Calcite	6, 155, 158
Keewatin	49	From Violet mine	10
Bass lake	47	In Montreal river veins	124
Bay lake	139	White, in torsion cracks	47
Bear creek	117, 129	Calcspar	154
Beaver Consolidated mine	71	Canada, refineries in	21
Beaver silver mine	155	Canadian Pacific Railway	1
Beaver lake	122, 137	Canadian Copper Co.	18
Beaver mine	71	Canadian Mining Institute	3, 25
Bell, Dr. R.	117	Capital stock of Cobalt companies	19
Bergeron lake	124	Carbon	151
Bessie lake	127	Carbonate of barium	155
Big Dan mispickel mine	9, 32	Carnegie, Pa., refinery at	23
Big Pete mine	17, 71	Carter, W. E. H., notes on ores by	13
Bimbawrie, South Australia, cobalt		Cartwright, R. A., mapping by ...	42
deposits at	165	Casey cobalt mine	72
Birch lake	129	Mountain	121
Bismuth	4, 5, 9, 12	Township	67, 132
In Annaberg deposits	158	Described	131
In Joachimsthal deposits	158	Cerargyrite	152, 155, 158
Mining in Saxony	182, 199	Chalanches, ores of	160
Native, analysis of	9	Chalcedony	158
Native, in Cobalt Hill vein ...	4, 6, 14	Chalcopyrite	124, 155
Native, in lake Superior silver		Chambers, W. C.	144
deposits	155	Character and strike of veins	38
Bismuthinite	158	Chemical groups	5
Blair, W. J.	145	Chili, cobalt deposits of	166
Blanche river	36, 132	Chloanthite	4, 6, 10, 14, 158
Abitibi branch of	136	Analysis of	8
Limestone on	34	Chloride of silver	158, 160
Blende	4, 150, 151, 155	Chlorite	151
Argentiferous	151	Chown lake	37, 43
Bloom, cobalt and nickel	4, 12	Christening of Cobalt town	2
Bloom, white	4, 7, 12	Chrome-garnet	156
Bloom lake	67, 124, 129	Chrome, N.J., refinery at	23
Bloom lake area described	129	City of Cobalt mine	20, 72
Blue color works	158, 194	Clay of cobalt area described	34
Bohemia	5, 157	Analysis of	35
Bonanza	153	Clay belt	35
Bornite	4, 124	Clear lake, Keewatin at	47
Boston township, rocks in	37, 47	Cobalt:—	
Boulders, in conglomerate	57	Cost of making color from ore...	185
In dikes	48	Customs works in 1642	195
Silver in	10	Export tax on, about 1604	186
Breccia	11, 46, 49, 157	Laws controlling trade of	190
Analysis of	53	Manufacture of in early times	184
Huronian	49	Miners' grievances and regula-	
Middle Huronian	56	tions in 1617	188
South of Lorrain	149	Mining in Saxony, present state	
Breccia-conglomerate	46, 49	of	198, 199
Brown-spar	158	Mining office as protector of	
Bucke, Township of	29, 39, 44	miners	190
Keewatin contact in	44	Monopoly granted 1575	184
Mine in	32	Open dealing in	191, 192
Bucknell property	131	Trade	187
		Trade difficulties in early times	185

	PAGE.
Works	168, 169, 194, 195
Works, local, in 1642	195
Cobalt bloom	4, 6, 155, 158
In lake Superior silver deposits	155
Cobalt blue:—	
Invention of	164, 167, 182
Cobalt Central mine	20, 77
Cobalt Contact mine	82
Cobalt-glance	162
Cobalt Hill silver-cobalt mine	10, 15
Analysis of ore from	11
Description of	10
Native bismuth at	12
Cobalt industry	166, 182
Cobalt in pottery	7
Cobalt lake	10
Analysis of ore near	12
Dip of rocks at	38
Mine	82
Cobalt Lake mine, described	82
Cobalt mines. <i>See</i> Mines	19, 68
Dividends paid by	19
Cobalt ore:—	
Analyses of	11, 13, etc.
Exhibit of	13
Foreign production of, 1896-1900	164
In Austria	157
In Chili	166
In France	160
In Germany	157
In lake Superior silver deposits	150
In Mexico	166
In Norway	162
In New Caledonia	162
In New South Wales	165
In South Africa	125, 165
In South Australia	165
In United States	165
Occurrences of in Canada	156
Production of	164
Value of	18, 164
Cobalt oxide	164
Cobalt-silver area, metamorphism of	41
Cobalt-silver deposits:—	
Difference between and Port Arthur deposits	150
Origin of. <i>See</i> Origin	59
Resemblance of to Joachimsthal and Annaberg	150
Cobalt Silver Queen mine	18, 82
Cobalt-silver veins	25
Character and strike of	38
Dimensions of	26
Discovery of cobalt-silver ores	1, 2
Distribution of ores	67, 117
Distribution of veins	67
In diabase	3
In Keewatin	3
Ore in diabase	3, 25, 28, 29, 124
Origin of. <i>See</i> Origin	59
Cobalt Station	2
Town, christening of	2
Townsite mine	84
Cobalt, uses of	7, 164
Cobaltite	4, 32, 147, 166
Analysis of	9
Gold in	32

	PAGE.
Cobbing ore	16
Coins	189
Cole, A. A.	20
Coleman, Prof. A. P., report of on Sudbury ore deposits	3
Colonial mine	20, 29, 84
Colorado, Grant Co.	165
Columbus mine, cobaltite	9, 79
Columnar jointing	39, 59
Concentrators at Cobalt:—	
Buffalo	70
Cobalt Central	77
Coniagas	75
Muggley	97
Ore reduction	105
Conglomerate, pseudo of Keewatin	46, 48
And volcanic breccia	46
Of Casey township	132
Of Montreal river	120
Origin of	42
Veins, in	3, 33
Coniagas mine, described	75
Dip of rock at	38
Keewatin near	50
Strike of veins	26
Vein on	26
Contact:	
Diabase and Keewatin	32, 33
Diabase and Laurentian	122
Granite and Lower Huronian	47, 121
Keewatin and Huronian	44
Keewatin and Laurentian	47
Laurentian and Lower Huronian	134
Middle and Lower Huronian	43, 56
Copper	8
Native	150
Copper Cliff, arsenic plant	18, 21, 170
Copper-glance	155
Copper pyrites	3, 6, 12, 31, 47, 151
In Keewatin	31
Corundum	1
Cosala, Mexico	166
Courtis, W. M.	150
Cracks in Keewatin	44
Cross lake	10, 26
Analyses of rocks at	64
Basalt and diabase	41, 64
Iron formation near	31
South of Temagami	67
Cross mine, cobalt bloom at	157
Crown Reserve mine	Fig. 3, 77
Crystals	1, 4, 6, 9, 12
Figures of	12
Currie claim	124
Customs works in 1642	195
Danaite	157
Darby claims	125, 126
Darby lake	122
Dark red silver ore	4
Darragh claims	126
Dead Moose lake	129
Decorative materials	1
Deloro refining plant	22, 169
Mispickel mine	170
De Lury, J. S., on Montreal river area	138
Analysis by	9

	PAGE.		PAGE.
Depth of veins	27	Elk city	121
Of shafts	43	Elk lake	118
Desert conditions	57	Ores of	67
Deserted lake	120	Ellipsoidal structure	120
Denver, ore shipped to	23	Emily lake	127
Deposition of ores	33	Emmons silver mine	155
Devil's rock	43, 59	England, ore shipped to	22
Diabase	38, 41, 43, 49	Enstatite	163
At Evans mine	63	Epidote	49, 52
At La Rose mine	28, 59	Erie Cobalt mine	86
Dike	28	Erosion of Keewatin and Lauren- tian	42
Eruption of	42	Erythrite	156
In Bucke township	39	Erzgebirge	159
In Casey township	132, 133	Europe, cobalt ores of	1, 157
In Dymond township	29	Evans mine diabase	63
Keewatin	42, 45, 49	Evanturel township	136
Laccolite	28	Exhibit, permanent, of ore	13
Later	64		
Magma	33, 60	Fahlbands	162
Microscopic description of	60	Farr's limestone quarry	34
Of Montreal river area	30, 121	Farr creek	45
Of Wendigo lake	135	Township	124
Post-Middle Huronian, described	59	Fault, horizontal	27
Quartz in	44, 60	Faulting	38
Silica in	63	In conglomerate	58
Veins in	3, 25, 28, 29, 124	Post-glacial	38
Diabase and Laurentian contact... ..	122	Feldspar	1
And Keewatin contact	32, 33	Veinstone	127
And Huronian contact	28, 29	Fenwick-Ellis claim	127
Beneath Keewatin	29	Ferland, A.	144
Diabase mount laccolite	28	Ferro-magnesian minerals	47
Diabase point	61, 64	Fine point	149
Dike, aplite	124	Fissures and joints	39
Diabase	28	Origin of	42
Keewatin	46, 48, 54	Flow structure	53
Lamprophyre	46, 55	Flows, surface in Keewatin	49
Later granite	65	Folding in Keewatin	44
Of granite	47	Fluorite	1, 155
Olivine diabase	124	Foreign cobalt deposits	157
Porphyry	42, 45	Foster, A.	142
Diorite	162	Foster, C. A.	142
Keewatin	49	Foster mine	86
Dimensions of veins	26	France	160
Dip of beds near Cobalt	38	Fredericktown, Mo., cobalt plant.	165
Of rocks	38, 59	Freibergite	4
Discovery of cobalt deposits	1		
Distribution of veins	29, 35, 41, 67	Gabbro	44, 59
Disturbance of veins	33, 35	Galbraith, R.	144
Dividends, Cobalt mines	19	Galena	4, 135, 150, 155, 158
Dolomite	152	Argentiferous	65, 67
Domeykite	155	At Cross lake	67
Dominion mine, cobalt bloom at... ..	157	At Wright mine	65
Downey claims	127	Galt, Gerald	135
Drummond mine	16, 86	Gangue	150, 151, 158
Dunite	163	Gas, inflammable, in mines	151, 155
Dunlap, D. A.	143	Geikie's text-books	39
Dymond township	29	Geological Survey of Canada, re- ports of	150, 156
Dynamite island	61	Germany, cobalt deposits of	157
Dyscrasite, analysis of	4, 6, 10	Gibson, T. W., Letters to W. G. Miller <i>re</i> mineral discoveries ...	3
Eagle lake	129	Gifford's claims	126
Earle, E. P.	144	Gillies limit	105
Early history of Cobalt industry in Saxony	132	Station	30
Edison claim	145	Giroux lake	26
Egyptians, ancient	164	Giroux lake diabase	60
Elizabethtown	165		

	PAGE.
Glacial rocks	44
Glacial origin of conglomerate ...	58
Glacial striæ	124
Faulting	38
Glasser, A., report by	164
Glendinning, Geo.	145
Glen lake	35
Gold .....1, 9, 151, 160, 165	
In Cobalt-silver ore	9, 32
In mispickel near Lake Temagami	9
In pyrites	65
Peculiar occurrence of, Rabbit lake	30
Traces of, in Port Arthur silver ore	151
<i>See also mispickel.</i>	
Goldschmidt, Prof.	6
Goodwin lake	37, 43
Gorman, R., & Co.	15
Government railway	1
Graham township	157
Granite, Laurentian	42, 43, 120
Granite boulders in Huronian	47
And Lower Huronian contact..47, 121	
And Middle Huronian	56
Intrusions in Keewatin	47
Near Kirk lake	47
Of Montreal river area	120
Granite dike	65
Granite porphyry	42
Grassey lake	129
Grant Co., Oregon, cobalt ore in...	165
Graphite .....1, 4, 152, 155	
Gray copper ore	12
Graywacké	42, 45
Graywacké-slate	56
Columnar jointing in	39
Green-Mehan mine	18, 29, 89
Greenstone, Keewatin	44, 49
Ore associated with	31, etc.
Recomposed	45
Greenstone and greywacké	45
Greenstones, fracturing of	26
Greenwater lake	127
Green lake	129
Grenville and Keewatin	49
Greywacké. <i>See</i> Graywacké.	
Guanacevi, Mexico	166
Gummite	158
Gunnison Co., Col., cobalt ore in...	166
Gypsum	158
Haileybury	45
Quarry at	34
Haileybury Silver Mining Co.	147
Hammer lake	127
Handy and Harmon, quotations by	23
H. F. 23, etc.	125
Harbeck claim	127
Harris township	132
Described	131
Hartzburgite	163
Hastings unconformity	49
Heavy spar	155
Height of Land	1
Hematite in Keewatin	31
High Bluff lake	129

	PAGE.
Holden lake	127
Hore, R. E., on Casey and Harris townships, etc.	131
Hornblende	45
Hornstone	157
Hot springs	3
Hound Chute	47
Hubert lake	124
Hudson township, iron formation	31
Huntelite	152
Hunt lake	129
Hunt, T. Sterry, early discoveries of nickel and cobalt by	156
Huronian formation, described.....	42, 56
Lower. <i>See</i> Lower Huronian.	
Contact of, with Keewatin....	46
Barren in certain cases	41
Breccia	48
Character of pebbles in	49
Cobalt-silver veins in	33, 40
Contact of, with Middle Huronian	43, 56
Depth of	27
Distribution of	29
Intrusion of diabase in	28, 29
Metamorphism of	41, 47
Middle, described	43, 56
Area of	56
Contact of with diabase	43
Contact of with Lower Huronian	56
Quartzite	43
Thickness of	27
Occurrence of mispickel in.....	30
Of Montreal river	120
Hutchison, Wm., Dominion Exhibition Comr:	13
Hutton township iron range	31
Hypersthene	64
Imperial Cobalt mine	20
Diabase	63
Indian chute	29
Ingall, E. D., report by, on Port Arthur silver area	150
Ingram township, cobalt in ...30, 135-136	
Described	135-136
Iron:—	
At Sharp's Landing	46
Chrome	163
Formation	31, 46
In greenstones of Keewatin formation	31, 46
In Keewatin	31
In mispickel near Lake Temagami	9
In silver-cobalt ore	10
Titaniferous	31
Iron pyrites	4, 31, 65
Iron range, buried	31, 46
In Hudson township	31
Iron ranges	1, 31, 46
Iturbide, Mexico	166
Jacobs silver-cobalt mine	18
Diabase at	60
Jalisco, Mexico	166
James, O. S., analyses by	11

	PAGE.		PAGE.
James township	36	Argentite mine specimen	54
Described	117	Basalt	51, 53
Veins in diabase	41	Buffalo mine specimen	51
Jasper in Keewatin	31	Diabase	50, 51
Jasper magnetite bands	48	Dikes in	54, 55
Jaspilyte near Drummond mine...	52	Diorite	50
J B 1 silver-cobalt mine. <i>See</i>		Drummond mine specimen	51
McKinley-Darragh mine.		Flow structure	53
J B 6 silver-cobalt location. <i>See</i>		Foster mine specimen	51
Coniagas mine.		Giroux lake specimen	51
J B 7 silver-cobalt mine. <i>See</i>		Kirk lake specimen	53
Trethewey mine.		Lamprophyre	54, 55
Joachimsthal, mineral deposits of		Near Coniagas mine	50
4, 5, 157, 159		Near Trethewey	50
Production of	159	Nipissing mine specimen	53
Jointing of rocks	39	Nova Scotia mine specimen	52
Johnny lake	37	O'Brien mine specimen.....	52, 53
Joints, cobalt veins in	39	Peterson lake specimen	52
Johnston, R. A. A.	4	Provincial mine specimen	51
J S. 14 silver-cobalt mine. <i>See</i> La		Sasaginaga creek specimen	50
Rose mine.		Silver Bar specimen	51, 53
Judge, P. O.	133	Silver Cross	52
Kaolin	158	Temiskaming mine specimen	53
Keeley mine	147	Trachytes	53
Keewatin formation	42, etc.	University mine specimen	51
Andesite	49	Watt mine specimen	52
Basalt	49, 51, 53	Keweenaw	43, 119
Cobalt-silver ores in	3, 32	Kerr lake mine	15, 89
Contact of, with Laurentian.....	42	Kerr lake, Huronian of	52
Contact of, with Lower Huron-		Diabase of	60
ian	46	Kerry lake	124
Decomposition of	49	King Edward mine	20, 91
Diabase in	41, 48	Kinogami lake	36
Diorite	50	Kirkegaard, P., on arsenic refining	32
Iron ores in	49	Kirk lake	37
Lamprophyre	55	Contact	47
Old surface of	2, 27, 28	Kittson township	117
Ores of	3, 31	Knight, C. W.	42, 49, 60, 147
Porphyry	42, 45	On Montreal river area	117
Pseudo-conglomerate	46	Kongsberg	162
Pyroxenite	49	Laccolitic masses	59
Sedimentary material	49	Structure of diabase	28
Torsion cracks in	44, 45	Lady Evelyn lake	67, 121
Trachytes	53	Lake Superior silver deposits	150
Type specimens	49	Minerals of Port Arthur veins...	155
Variety of rocks in	49	Ores of other Lake Superior	
Veins in	3, 26, 27, 28, 31	mines	155
Volcanic rocks in	49	Port Arthur mines	150
Fragmental	46	Rabbit mountain group	155
Keewatin overlying diabase	29	Silver Islet mine	152
Keewatin and Huronian contact...	44, 45	Lake Temiskaming	43
Keewatin and Lower Huronian	46	Limestone on	33
Keewatin and Laurentian contact	47	Lake Wendigo area	125
Keewatin and Laurentian des-		Lamprophyre at Nipissing mine...	54, 55
cribed	42, 44	Dikes of	46, 158
Keewatin compared with Tertiary		Microscopic description	55
eruptives	49	Keewatin	49
Keewatin at Sasaginaga lake	47	La Rose, Fred	140
At Clear lake	47	La Rose silver-cobalt mine	15, 93
Of Montreal river area	120	Breccia at	58
Of Casey township	134	Character of ore from	12, 13
Of Harris township	134	Diabase at	63
Of south of Lorrain	148, 149	Exhibits of ore from	13
Keewatin dikes	48, 54, 55	Pyrargyrite at	7
Keewatin, microscopic descriptions		Strike of vein	26
of:—		Vein	25
Andesite	51, 52	Veins on first level	26

	PAGE.
Later basalt	41
Latchford station	36
Laurentian system .....42, 47, 134, 161	
Contact of, with Keewatin	47
Lower Huronian	134
Of Casey township	134
Of Montreal river area	120
Laurentian syenite	134
Granite	42
Lava flows in Keewatin	49
Lawson, Dr. A. C. ....40, 156	
Lawson mine	15
Lead	1, 8
Ledoux, Dr. A. R., richness of	
Cobalt ores	25
Ledoux & Co., sampling by	21
Leeds county	156
Leonard, R. W. ....141	
Le Roy Claim	136
Liege Exhibition, ores at	13
Light red silver ore	4
Limestone, Niagara of Temiskam-	
ing	33
Analysis of	34
Lime from	33
Lines of disturbance	35
Lines of weakness, regional	38
Linnæite	158
Little Dan mispickel mine	9
Little Niccolite lake	127
Little Nipissing mine	99
Little Silver cliff .....13, 15, 42	
<i>Frontispiece.</i>	
Logan, Sir Wm. ....34, 35, 43	
Long lake	2
Long Point lake	129
Longwell, A. ....141	
Loon lake	147
Veins near	30
Lorrain, area south of.....36, 37, 67, 147	
Lorrain granite .....42, 47, 54	
Lost lake	129
Louisiana Purchase Exhibition, ex-	
hibit of ores at	13
Low grade ore	17
Lower Huronian system, described	
.....42, 48, 56	
Contact with granite .....47, 134	
Middle Huronian	56
Of Casey township	133
Of Montreal river	118
Origin of	57
Thickness of	28
<i>See Huronian, Lower.</i>	
Macfarlanite .....152, 155	
Madoc	157
Magma, diabase .....33, 60	
As source of ore <i>Preface</i> , 3	
Magmatic waters	49
Magnesia in calcite	10
Magnetite	157
In Keewatin	31
Malachite	157
Mallard lake	135
Manganese .....4, 163	

	PAGE.
Maple mountain	117
Rocks of	121
View from	119
Maps	42
Map of 1744	6
Marble	1
Marcasite	152
Marion, Ky., cobalt and nickel at	165
Markets	167
Marmora station	22
Marter township	136
Martineau bay	59
Matawapiki	67
Mattawin iron range	31
Mattawa	36
McGregor township	156
McKim	156
McKellar's island silver mine	154
McKinley, J. H. ....141	
McKinley and Darragh mine.....15, 96	
McMartin, John	143
McMartin, D. ....143	
Mendelssohn lake	127
Metallurgy of cobalt ores	167
Metamorphism of silver area	41
Mexico, cobalt deposits of	166
Michipicoten island .....150, 156	
Iron range	31
Mickle township	124
Microscopic description of Kee-	
watin specimens	50
Micrographic intergrowth .....60, 122	
Middleburg, Transvaal, cobalt de-	
posits	165
Middle Huronian system .....30, 31, 119	
Described	56
Unconformity	43
Middle Huronian and Laurentian.	48
Millerite .....6, 156, 158	
Mine La Motte, Mo., cobalt at ...	165
Minerals, lists of .....5, 155, 158	
Arsenic	5
Origin of silver-cobalt	
3, 26, 41, 59, 60, 125, 151, 165	
Relative age of .....10, 33, 158	
Unique	1
Mineral water	153
Mine accidents	68
Mines, ore shipped from .....20, 116	
Mines, working at Cobalt, des-	
cribed:	
Badger	71
Bailey	71
Beaver Consolidated	71
Big Pete	77
Buffalo mine	68
Casey Cobalt	72
City of Cobalt	72
Cobalt Contact	82
Cobalt lake	82
Cobalt Silver Queen	82
Cobalt townsite	84
Colonial	84
Columbus	79
Coniagas	75
Crown Reserve	77
Drummond	86
Erie Cobalt	86

	PAGE.		PAGE.
Foster	86	New Jersey, refining plants in.....	21
Green-Meehan	89	New Liskeard, clay at	34
Kerr lake	89	New Ontario mine. <i>See</i> Trethewey	
King Edward	91	mine.	
La Rose	93	New South Wales, cobalt deposits	
Little Nipissing	99	of	165
McKinley-Darragh	96	Niagara formation	42
Moose Horn mines	126	Rocks of	44
Nancy-Helen	97	Limestone of	31, 33
Nipissing	99	Niccolite .....4, 6, 10, 13, 155, 158	
Nova Scotia	102	In Cobalt hill ore	10
O'Brien	102	In Port Arthur silver mines.....	155
Peterson lake	105	Specific gravity of	11
Provincial	105	Niccolite-silver ore, analysis of	8
Red Rock	108	Niccolite lake	127
Right of Way	107	Nickel, difference between Sudbury	
Rochester Cobalt	108	and Cobalt deposits of	3, 163
Rothschild	109	Nickel bloom	4
Savage	110	Nickel mines. <i>See</i> silver-cobalt mines.	
Silver Bar	110	Nickel	8
Silver Cliff	109	Analyses of	8
Silver Leaf	109	Associated with gold	30
Silver Queen	82	At Mine La Motte, Missouri.....	165
Standard Cobalt	77	Exhibits of	13
Temiscaming & H. B.	111	In deposits of Joachimsthal.....	158
Temiscamingue	110	In Lake Superior silver de-	
Temiskaming Cobalt	115	posits	155
Townsite	84	In ores of New Caledonia	163
Trethewey	114	In ores of Sudbury	1, 3, 163
University	115	Occurrences of, known in 1890....	156
Victoria	114	Production of	20, 116
Violet	115	Value of	15
Watts	91	Nickeliferous pyrrhotite	3, 163
Wright	115	Nickel pyrites	158
Mirador mine, Mexico	166	Nicol, Prof. Wm.	7, 11
Mispickel .....4, 6, 32, 155		Nipissing mine, described	99
Analyses of	9	Lamprophyre on	54
In Lake Superior silver deposits	155	Nipissing mining company .....3, 12, 15	
Mine at Deloro	170	Norite, Sudbury	60, 65, 163
Near Lake Temagami	32	Norway, cobalt deposits of	162
Mispickel mines:		Notes on minerals	6
Big Dan	32	Nova Scotia mine, described	102
Little Dan	32	Rocks at	3, 18, 29
Molybdenite	162, 165	Veins at	28
Monopoly, cobalt	184	Nugget claim	61
Montreal river, ores of .....3, 36, 67		Nuggets of silver	13
Keewatin	47	N.W.-S.E. water system	36
Area described	117, 138	Origin of	38
Moose or Quinze river	43		
Moose Horn mines	126	Obabika lake	37
Morin lake	125	Old Bill lake	127
Mountain portage	34	O'Brien mine	16
Mount McKay, section through ...	40	Described	102
Mud lake diabase	63	Diabase	62
Muggley concentrator	97	Octahedron of smaltite	12
Munroe claims	127	Olivine	163
Murray claim in Casey	131	Olivine diabase	44, 65, 124
		Ophitic texture	45, 61
Nancy-Helen mine	97	Ore buyers	20
Native silver .....4, etc.		Oregon, Grant Co., ores	165
Arsenic	5	Ore Reduction Co.	105
Bismuth	4, 9, 12	Ore shipments	15, 116
Elements	4	Ores, cobalt silver:	
Of Montreal river area	124	Analyses of	15
N.E.-S.W. water system	37	Distribution of	30
Origin of	38	In diabase	29
New Caledonia, cobalt deposits of...	162	In Huronian	10
Competition of, with Ontario...	166	In Keewatin	31

	PAGE.
Origin of. 3, 26, 41, 59, 60, 125, 151, 165	
Periods of deposition of	39
Orford works	18, 21
Origin of cobalt-silver ores	
<i>Preface.</i> 3, 26, 41, 59, 60, 125, 151, 165	
Origin of water systems	38
Other Temiskaming cobalt areas...	117
Ottawa river	36
Otter creek	37
Otter lake	129
Palladium, in Sudbury ore	1
Paradis bay	43
Paradis, Father	139
Parallel veins	26
Paris green	32
Parks, W. A.	136
Paulson's bay	37
Pebbles, kinds of, in Huronian ..	49
Pegmatite, diabase	124
Peneplain	117
Penn. Smelting	25
Pense township	67, 135
Rocks of	135
Peridotite	163
Periods of deposition of o.	33
Perth Amboy plant	23
Peterson lake	3
Diabase near	60, 62
Lamprophyre dikes near	46
Peterson Lake mine	105
Phillips' "Ore Deposits," notes	
from	159
Pickering lake	45
Keewatin	45, 47
Pie island, ores of	154
Pigments, cobalt	164
Pihuamo, Mex., cobalt at	166
Pike lake	129
Pitcheblende	5, 158, 198
Plants for cobalt-arsenic ore ...	16, 21, 32
Illustrations of	168, 170
Plate glass, arsenic in	32
Platinum, in Sudbury ores	1
Pleistocene	42
Point Fine	149
Polybasite	158
Porcupine silver mine	155
Porphyries	49
Keewatin	49
Porphyritic rocks	52, 53
Porphyritic texture in lamprophyre	55
Porphyry	158
At Wright mine	65
Porphyry dikes	45, 149, 158
Port Arthur silver mines	18, 150
Diabase near	40
District of	28
Portage bay, veins near	30
Diabase	63
Portage lake	129
Port Macquarrie, N. S. W., cobalt	
deposits near	165
Post-Glacial faults	38
Post-Middle Huronian diabase ...	43, 59
Pottery, cobalt in	7
Pre-Cambrian series	42
Precipitation of ores	26

	PAGE.
Prefaces to 2nd and 3rd editions...	ix-xvi
Prices of cobalt, nickel, arsenic...	13, 15
Prices of silver, annual average ...	24
Prices paid for ores	20
Pottery	164
Princess mine	20
Prince's silver mine	157
Cobalt at	157
Production of ore	15
Productive areas	41
Character of	41
Proustite	4, 5, 158
Provincial mine	105
Prussia	164
Pseudo-conglomerate of Keewatin	46, 48
Pyrite at Temagami	32
Pyrites	1, 155, 158
Pyrargyrite	4, 6, 14, 158
Crystals of	7
Pyroclastic material	57, 58
Pyroxene	1, 163
Analysis of	54
Pyroxenite, Keewatin	49
Pyrrhotite	3, 151, 157
Quartz diabase	44, 60, 63
Of Montreal river area	122
Quartz grains, rounded in granite	47
Quartz in Cobalt ore	6, 12
Quartz, primary	44
Quartzite	143
Huronian	42, 43
Maple mountain	125
Of Montreal river area	118, 143
Quartz porphyry	158
<i>See</i> porphyry.	
Quinze or Moose river	43
Rabbit lake	30, 41, 67
Analysis of ore from	30
Gold and cobalt ore on	30
Rabbit Mountain silver mines	155
Radium	5
Recomposed greenstone	42
Red Rock mine	20, 29
Refining Cobalt ores ...	21, 22, 23, 167, 170
Regional disturbances	35
Map of	37
Reverse fault	38
Rib lake	37
Richness of Cobalt ores	25
Rickard, T. A.	160
Rittengerite	158
Rhodochrosite	152
Rhombic dodecahedron	12
Right of Way mine	18, 107
R L 404 silver-cobalt mine	10, 42
Cobalt Hill vein	10, 15
Exhibits of ore from	14
<i>See also</i> Cobalt Hill and Little	
Silver mines.	
R L 403, diabase on	63
R L 405	149
Rochester Cobalt mine	108
Rocks of cobalt-silver area	42, etc.
Ages of	47
Breccia, analysis of	58
Cross lake rocks, analyses of ...	64

	PAGE.		PAGE.
Diabase	43, 59	In Silver Islet mine	152
Gabbro	59	Near Port Arthur	40
Glacial. <i>See</i> Glacial.		Relative age of	10, 33, 158
Huronian. <i>See</i> Huronian.		Silver-cobalt mines. <i>See</i> mines.	
Keewatin. <i>See</i> Keewatin.		In Keewatin	32, etc.
Laurentian. <i>See</i> Laurentian.		Silver Cross mine, jasper near ...	52
Niagara. <i>See</i> Niagara.		Silver mines, Lake Superior.	
Slate, analysis of	58	Beaver	155
Rocks of Cobalt and Sudbury, com- pared	65, 163	Emmons	155
Rogers, W. R., on Bloom lake	129	McKellar's island	154
Rorke township	117	Porcupine	155
Rosettes of cobalt bloom	6	Prince's	157
Ross lake	129	Rabbit mountain group	155
Rothschild mines	109	Shuniah	154
Russel, R. K.	144	Silver Islet	152
Russel, W. B.	144	Silver mountain group	155
St. Louis Exhibition, exhibit of ores at	13	Spar Island	154
Sacking ore	16	3 A mine	154
Sanderson lake	129	Whitefish lake group	155
Sandy portage	47	Woodsides	155
Saponite	151	Silver mining, 1902-6	18
Sasaginaga lake, Keewatin at	47	Silver ore:	
Savage mine	18, 110	Analyses of	13, etc.
<i>See</i> McKinley-Darragh.		Exhibit of	13
Saxony	1, 157, 182	In Annaberg deposits	157
Scapolite	1	In Joachimsthal deposits	157
Schist, Keewatin	49, 54	In Port Arthur area	150
Schneeberg	157	Of Lake Superior deposits	150
Cobalt industry of	182	Of Wright silver-lead mine	65
Rare minerals at	198	On Lady Evelyn and Cross lakes	67
Silver and associated minerals at	182	Production of	152
Silver and cobalt mining	182	Source of	161, 162
Silver cobalt mine at	157	Value of	16, etc.
Silver nuggets at	182	Silver Queen mine	4, 82
Stealing cobalt ore in 1603	185	Situation and discovery	1
Uranium at	158, 198	Skeleton lake	136
Secondary disturbance in veins ...	33	Skull lake	127
Sediments in Keewatin	49	Skutterud, Norway, cobalt deposits	
Serpentine	163	of	162
Shane-Darragh claims	126	Skutterudite	162
Sharp's Landing	41	Slabs of silver	14
Iron formation at	31	Slate:	
Keewatin near	46	Analysis of	58
Sheets of diabase	43, 59	Contact of, with diabase	39
Shields island	130	Reddish banded	56
Shipments of silver-cobalt ore ...	15, 116	Slate conglomerate	49
1908	116	Smaltite	4, 6, 12, 14, 158, 165
Short lake	47	Analyses of	11
Shuniah island silver mine	154	Anvil lake	125
Siderite	158	In Cobalt Hill vein	6, 10
Sills, of diabase	28, 40, 43, 59, 153	In Gunnison Co., Col.	166
Of Montreal river area	122	In McKim township	156
Silurian limestone	42	On Trout lake	145
Series	44	Specific gravity of	11
Silver area, metamorphism of	41	Smelters for Cobalt ores, 21, 22	
Silver, annual average price of ...	24	23, 167, 170	
Silver Bar mine	110	Smithsonite	166
Silver Cliff mine	109	Smythe township	120
Silver Islet mine	152	Snarum, Norway, cobalt at	162
Silver lake	124	Sodalite	1
Silver Leaf mine	20, 109	South African cobalt deposits ...	125, 165
Silver, origin of. <i>See</i> Origin	60, etc.	South Australian cobalt deposits ...	163
Wire	147	South of Lorrain	36
Silver, native	4, 6, 150, 158, etc.	Spain, cobalt in	165
In Lake Superior mines	150	Spar Island silver mine	154
		Specific gravity of Cobalt minerals	11
		Average of ore	11

	PAGE.
Speight township	121
Sphalerite	135
Sphene	1
Spheroidal form of chloanthite ...	6, 12
Parting in Keewatin	45
Spring creek	127
Standard Cobalt mine	77
Statistics	15, 164
Stealing ore	160, 185
Stephanite	158
Sternbergite	158
Stibnite	146, 160
Stock-jobbing	<i>Preface</i>
Straight lake	37
Strike of veins	25, 33, 38
Parallel with dip of rocks	38
Stringers of quartz	47, 51
Stromeyerite	4
Sudbury nickel deposits	163
Difference from Cobalt deposits.	3
Igneous origin of	3
Sulph-antimonides, list of	4
Sulph-arsenides, list of	4, 115, 158
Sulphur	5, etc.
Sutton's bay	131
Swansea, ore shipped to	22
Syenite in Casey	132
Laurentian	134
Sympathetic ink	6
Syncline, at Cobalt lake	38
Synclines in Huronian	46
Talc	1
Temagami Forest reserve, cobalt in	117, 138
Temagami iron range	31
Temagami lake	31
Temagami, mispickel near	9
Temiskamingue mine	110
<i>See Temiskaming.</i> ...	
Temiskaming and Hudson Bay mine	115
Temiskaming and Northern On- tario Railway	1
Temiskaming Cobalt mine.....	9, 18, 29, 32, 115
Temiskaming lake	1, 27, 43
Temiskaming mine	3
Temiskaming and Hudson Bay mine	15
Tetrahedrite	4, 6, 12, 155, 158
Analysis of	8
Thin sections of Keewatin	42, 115
Of diabase	60
Thorold refinery	22
3 A silver mine	154
Thunder cape	152
Timmins, Dunlap & McMartin.....	15
Timmins, L. H.	143
Timmins, N. A.	143
Tin	158
Titaniferous ore	31
Tomstown	37, 135
Torsion cracks	47, 120
Townsite mine, Cobalt	20, 84
T. R. 173, etc.	125
Transvaal	165
Trap	40, 155

	PAGE.
Tres Puntas silver mines, Chili, co- balt at	166
Trethewey, W. G.	14, 15, 141
Trethewey and Leonard	15
Trethewey silver-cobalt mine	13, 14, 25, 114
Trethewey mine, Keewatin near...	50
Strike of vein	26
Described	114
Ore from	25
Trout lake	127, 139
Creek	139
Troy, ruins of	164
Tudhope township, described	117
Keewatin in	120
Turner, N. L., analysis by	54
Twin lake	129
Type specimens of Keewatin	49
Unconformity	43, 58, etc.
<i>See Contact.</i>	
Grenville-Hastings	49
Upper Huronian	31, 43, etc.
United States, cobalt deposits of...	165
Refining plants	23
Smelting & Refining Co.	23
University mine, described	115
Diabase	62
Granite dike	65
Uraninite	5, 158, 198
Uranium ore in Joachimsthal de- posits	158
Uranochalchite	158
Uranochre	158
Values in veins	33
Value of cobalt-silver ore.....	16, 20, etc.
Van Hise, on origin of cobalt-sil- ver ores	3
Van Nostrand township	121
Veins, cobalt-silver:	
Banding of	6
Character and strike of.....	33, 38, etc.
Depth of	27
Dimensions of	26
Distribution of	30
Disturbance in	33, 41
In diabase	3, 29, 124, etc.
In Huronian conglomerate.....	3, 25, 33, etc.
In Keewatin	3, 26, 49, etc.
Massive structure of	6, 10
Minerals of	4
Occupying joint cracks	39
Parallel	25
Passing from Huronian to Kee- watin	33, 40
Keewatin to diabase	40
Strike of	25, 35, 39
Veinstone	6, 14, etc.
Vein system on La Rose	26
Vermilion district	45
Vermilion lake	157
Vertical section at Joachimsthal..	159
Victoria Mining Co.	15, 114
Ville Marie	65
Arkose at	48
Violet mine	16, 115

	PAGE.		PAGE.
Calcite from	10	Metamorphism of rocks	41
Diabase	64	Ores of	67
Volcanic breccia in Keewatin	53	West End Silver mine	18
Volcanic fragmental material in Keewatin	46	White arsenic:	
Volcanic rocks in Keewatin	49	Composition of	32
Volcanic waters	3	Price of	32
Von Cotta on Joachimsthal ores...	158	Uses of	32
Vugs	6	White bloom, analysis of	7
Wabi bay	36	White Bros. claim	122, 125
Wabi creek	36	Whitefish lake silver mine	155
Wacké	159	White Silver Mining Co.	15, 20
See greywacké.		Whitson township	42
Waddell, Dr. J., analyses by	11	Whitewater lake	146
Wallace mine, nickel and cobalt at	157	Width of veins	26, etc.
Water system, N.W.-S.E.	36	Willow Island lake	128
N.E.-S.W.	35	Witherite	155
Origin of	38	Wittichen, ores of	158
Waters as source of ore	3	Woodsides silver mine	155
Watts mine	91	Wright creek	37
Diabase	63	Wright, M.	142
Rocks at	29	Wright, N. C.	142
Watts and Allen	15	Wright silver-lead mine	65
Wells, J. Walter, on arsenic	32	Wright mine, Cobalt	115
Wendigo lake	36, 37	Working charges by smelters.....	23
Area described	135	Wyandotte smelting works	150
Diabase at	28	Zinc	1, etc.
		Zinc blende	4, 151, 158
		Zircon	1

